

# **Technical Report No. 48 (2)**

## **Eye Irritation: Reference Chemicals Data Bank (Second Edition)**

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## **ECETOC Technical Report No. 48 (2)**

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Avenue E Van Nieuwenhuyse 4 (Bte 6), 1160 - Brussels, Belgium.

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## PREFACE TO THE SECOND EDITION

ECETOC Technical Report No. 48, Eye Irritation Reference Chemicals Data Bank, published in 1992, presented comprehensive rabbit eye irritation data obtained on 55 chemicals assessed in 72 *in vivo* tests. Since that publication, the ECETOC Task Force became aware of other studies, not then published, and of other sources of unpublished data. This second edition contains 77 additional chemicals which, together with their *in vivo* data, meet the ECETOC selection criteria.

Most of the text from the original report is repeated in this second edition, but with minor changes necessitated by the increased number (132) of chemicals. The main changes are in the updated indexes (Tables 3 and 4) and data sheets (Appendix), in which the additional chemicals are identified by an asterisk (\*).

Note: This is a compilation of existing data, much of which has never been published in detail. No testing was undertaken in relation to the preparation and updating of this data bank.



# **Eye Irritation: Reference Chemicals Data Bank (Second Edition)**

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## SUMMARY

For several years industry has been engaged in modifying the existing *in vivo* techniques for the assessment of ocular irritancy in order to minimise distress and the number of animals used. This has been seen as an interim measure until alternative non-sentient methods, acceptable to regulatory authorities have been developed. Acceptance of alternative techniques has been hampered in the past by the use of unspecified chemicals in validation exercises. Establishment of a reference chemicals data bank of freely available chemicals of known purity and ocular irritation response would allow the chemicals and their associated data to be used in the various stages of validation without recourse to *in vivo* testing.

The original list of 55 chemicals for which comprehensive *in vivo* rabbit eye irritation data were available has now been extended to 132 chemicals, assessed in 149 *in vivo* studies; 28 of the test materials were tested as solids, 24 as aqueous solutions. Stringent criteria regarding purity of the chemicals and quality of the *in vivo* data were applied in selecting the chemicals. No new *in vivo* testing was carried out in order to qualify a chemical for inclusion in the data bank. The 132 chemicals selected are available at high and consistent purity and are expected to be stable in storage. They have been tested undiluted in *in vivo* studies, excepting those chemicals where high concentrations of the substance could be expected to cause severe effects. The *in vivo* data have been generated since 1981 in studies carried out according to OECD Test Guideline 405 and following the principles of Good Laboratory Practice. The data presented were obtained from tests normally using at least 3 rabbits evaluated at the same time. Dosing was by instillation of 0.1 ml (or equivalent weight) into the conjunctival sac and observations were made at least at 24, 48 and 72 hours after instillation.

The extended list of chemicals now represents a full range of chemical types (acetates, acids, acrylates/methacrylates, acyl halides, alcohols, aldehydes, alkalis, aromatics, brominated derivatives, esters, fatty acids, heterocyclics, hydrocarbons, inorganics, ketones, nitriles, organophosphates, pesticides, soaps/surfactants, sulphur-containing compounds, triglycerides) and different degrees of irritancy. These chemicals are ranked for eye irritation potential on the basis of a Modified Maximum Average Score (MMAS). They should be of use in validation tests for promising alternatives to the *in vivo* rabbit eye irritation test. This is an essential step in the progression to regulatory acceptance.

## 1. INTRODUCTION

Historically, toxicological data used in assessing the safety of chemicals to man have been generated by testing the materials on animals. Regulations now require extensive testing of new chemicals and there are increasing demands for the testing of many chemicals which may have been in use for a number of years. The net result of these developments is that the number of animals used in toxicological tests may be expected to increase. These trends are taking place whilst there is criticism over the use of animals in such testing.

Many companies and regulatory authorities share the published concern of the animal welfare organisations. For several years industry has been modifying the existing *in vivo* techniques in order to minimise distress, and the number of animals used, as an interim measure until alternative non-sentient methods acceptable to regulatory authorities have been developed.

The *in vivo* rabbit eye irritation test, in particular, has frequently been criticised on animal welfare grounds. In recent years many laboratories have been working to develop *in vitro* alternatives to this test, and a number of validation exercises have been carried out to assess the reliability and relevance of some of the more promising methods.

Initially, this work was conducted without the benefit of a data bank of reference chemicals for which good quality *in vivo* data were available, although proposals had been made that a bank should be established (US Joint Government-Industry Workshop, 1989; Balls *et al*, 1990; EEC, 1990; Purchase, 1990).

These proposals led the ECETOC Scientific Committee to convene the original Task Force, the objective of which was the development of a list of chemicals which would serve as a reference data bank to be used in assessing the potential of alternative techniques as a replacement for the *in vivo* eye irritation test (often referred to as the "Draize test"). The terms of reference of the original Task Force were as follows.

1. To prepare a list of chemicals suitable for use in the validation of alternative methods for the assessment of eye irritation; the list should contain chemicals covering different chemical classes and different degrees of irritancy;
2. to derive from the literature the *in vivo* eye irritancy of chemicals in this list;
3. to rank the eye irritancy potential of the chemicals on the basis of the individual *in vivo* data available;

4. to recommend, if appropriate, the need for chemicals so selected to be tested in a single laboratory in order to provide adequate information suitable for validation studies.

The data contained within the report and publication of the original Task Force (ECETOC, 1992; Bagley *et al*, 1992) were considered to be of great value to the EC/HO international validation study on alternatives to the Draize test (Balls *et al*, 1995).

In 1996, the ECETOC Scientific Committee approved the updating and expansion of the data bank using the same terms of reference and closely similar criteria.

Potential sources of *in vivo* eye irritation data were identified from the literature. From these (and other) sources, information relating to eye responses of individual rabbits, and the specification of the chemicals selected, was assessed against selection criteria (Chapter 2).

## 2. PROCESS FOR THE SELECTION OF CHEMICALS

A review of the literature revealed a number of publications containing references to *in vivo* eye irritation tests of identified chemicals. In virtually all cases data were presented in summary form (and interpreted against different standards or indices) and consequently were inappropriate for the ECETOC exercise. Due to these limitations, the authors and other sources were contacted to establish the availability of individual rabbit eye data, the *in vivo* test method and the specification of the chemicals used.

The chemicals and the eye irritation data given in the Appendix meet the following criteria.

- Reference chemicals are single chemical entities available at known and consistent high purity and are expected to be stable in storage.
- There are *in vivo* rabbit eye irritation data which have been generated since 1981 in studies carried out according to OECD Test Guideline 405<sup>a</sup>, following the principles of Good Laboratory Practice and have been obtained in tests:
  - normally using at least 3 New Zealand White rabbits tested at the same time,
  - involving instillation of 0.1 ml or the equivalent weight into the conjunctival sac,
  - in which anaesthesia was not used,
  - in which observations were made at least at 1, 2, and 3 days after instillation, and
    - include individual scores (using the Draize scale) for each time point assessed in each rabbit,
    - enable reversibility/irreversibility to be assessed,
  - in which chemicals were tested undiluted (except that data from studies using dilutions of the chemical were acceptable when higher concentrations of the chemical could be expected to cause severe effects).

For the compilation of this Second Edition, the first criterion for reference chemicals ("single chemical entities available at known, high, consistent purity and expected to be stable in storage") has been slightly relaxed. This has been done so that some commercial chemicals, manufactured and supplied to a specification which ensures a consistent composition, can be included in the data bank. An example is fatty acids where composition is guaranteed by analytical parameters such as saponification value rather than % purity (saponification is used as a qualitative measurement since analytical quantitation is expensive and would take too much time). If appropriate, this is indicated on the data sheets in the Appendix.

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<sup>a</sup> OECD Test Guideline 405 was adopted on 12 May 1981. A revised Test Guideline 405 was adopted on 24 February 1987 but the revisions did not amend the essentials of the procedure for the *in vivo* test (OECD, 1987).

### 3. CHEMICALS DATA BANK

#### 3.1 CHEMICALS SELECTED

From the sources of data available 55 chemicals met the criteria defined above (Section 2) for inclusion in the original samples bank; a further 77 chemicals have now been included. Eye irritation data for individual rabbits tested with these chemicals are presented in the Appendix.

#### 3.2. GRADING OF OCULAR EFFECTS

The EC and US regulatory agencies use the OECD grading scale for the effects on the eye as shown in Table 1.

**Table 1: Grading Scale for Eye Irritation Effects**  
(OECD, 1987)

|                                                                                                                                                                                      | Grade |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>Cornea:</b> Opacity, degree of density (area most dense taken for reading)                                                                                                        |       |
| No opacity                                                                                                                                                                           | 0     |
| Scattered or diffuse area, details of iris slightly obscured                                                                                                                         | 1     |
| Easily discernible translucent areas, details of iris slightly obscured                                                                                                              | 2     |
| Opalescent areas, no details of iris visible, size of pupil barely discernible                                                                                                       | 3     |
| Opaque, iris not visible                                                                                                                                                             | 4     |
| <b>Iris:</b> Values                                                                                                                                                                  |       |
| Normal                                                                                                                                                                               | 0     |
| Folds above normal, congestion, swelling, circumcorneal injection (any or all of these or combinations of any thereof), iris still reacting to light (sluggish reaction is positive) | 1     |
| No reaction to light, haemorrhage, gross destruction (any or all of these)                                                                                                           | 2     |
| <b>Conjunctivae:</b> Redness (refers to palpebral conjunctivae only):                                                                                                                |       |
| Vessels normal                                                                                                                                                                       | 0     |
| Vessels definitely injected above normal                                                                                                                                             | 1     |
| More diffuse, deeper crimson red, individual vessels not easily discernible                                                                                                          | 2     |
| Diffuse beefy red                                                                                                                                                                    | 3     |
| <b>Conjunctivae:</b> Chemosis (Oedema)                                                                                                                                               |       |
| No swelling                                                                                                                                                                          | 0     |
| Any swelling above normal (includes nictating membrane)                                                                                                                              | 1     |
| Obvious swelling with partial eversion of lids                                                                                                                                       | 2     |
| Swelling with lids about half closed                                                                                                                                                 | 3     |
| Swelling with lids about half closed to completely closed                                                                                                                            | 4     |

Friedenwald *et al* (1944) published "a numerical estimation of the severity of lesions produced in the cornea of rabbit's eyes by action of corrosive agents." In addition to the factors listed in Table 1, the scheme assigned grades, each with a maximum of 4, for the area of cornea affected and conjunctival discharge, and also rated four other parameters related to corneal effects. The maximum score (intensity of corneal opacity rating a maximum of 8), calculated by simple addition, was 40 with maximal corneal effects contributing 70 % of the maximum. Draize *et al* (1944) modified this scheme

to make it more generally applicable by using a weighted scoring system involving multiplication factors as shown in Table 2. The contribution of maximal corneal effects contributes 73 % to the total score.

**Table 2: Grading Scale and Multiplication Factors**

(Draize *et al*, 1944)

| I.                                                                                                                                                                                   | Cornea       | Grade                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------|
| A. Opacity - degree of density (area most dense taken for reading):                                                                                                                  |              |                           |
| No opacity                                                                                                                                                                           |              | 0                         |
| Scattered or diffuse area, details of iris slightly obscured                                                                                                                         |              | 1                         |
| Easily discernible translucent areas, details of iris slightly obscured                                                                                                              |              | 2                         |
| Opalescent areas, no details of iris visible, size of pupil barely discernible                                                                                                       |              | 3                         |
| Opaque, iris invisible                                                                                                                                                               |              | 4                         |
| B. Area of cornea involved:                                                                                                                                                          |              |                           |
| One quarter (or less) but not zero                                                                                                                                                   |              | 1                         |
| Greater than one quarter but less than half                                                                                                                                          |              | 2                         |
| Greater than half but less than three quarters                                                                                                                                       |              | 3                         |
| Greater than three quarters, up to whole area                                                                                                                                        |              | 4                         |
| <b>Score (A x B) x 5</b>                                                                                                                                                             |              | <b>Total Maximum = 80</b> |
| II.                                                                                                                                                                                  | Iris         |                           |
| C. Values:                                                                                                                                                                           |              |                           |
| Normal                                                                                                                                                                               |              | 0                         |
| Folds above normal, congestion, swelling, circumcorneal injection (any or all of these or combinations of any thereof), iris still reacting to light (sluggish reaction is positive) |              | 1                         |
| No reaction to light, haemorrhage, gross destruction (any or all of these)                                                                                                           |              | 2                         |
| <b>Score C x 5</b>                                                                                                                                                                   |              | <b>Total Maximum = 10</b> |
| III.                                                                                                                                                                                 | Conjunctivae |                           |
| D. Redness (refers to palpebral conjunctivae only):                                                                                                                                  |              |                           |
| Vessels normal                                                                                                                                                                       |              | 0                         |
| Vessels definitively injected above normal                                                                                                                                           |              | 1                         |
| More diffuse, deeper crimson red, individual vessels not easily discernible                                                                                                          |              | 2                         |
| Diffuse beefy red                                                                                                                                                                    |              | 3                         |
| E. Chemosis (Oedema):                                                                                                                                                                |              |                           |
| No swelling                                                                                                                                                                          |              | 0                         |
| Any swelling above normal (includes nictating membrane)                                                                                                                              |              | 1                         |
| Obvious swelling with partial eversion of lids                                                                                                                                       |              | 2                         |
| Swelling with lids about half closed                                                                                                                                                 |              | 3                         |
| Swelling with lids about lids about half closed to completely closed                                                                                                                 |              | 4                         |
| F. Discharge:                                                                                                                                                                        |              |                           |
| No discharge                                                                                                                                                                         |              | 0                         |
| Any amount of difference from normal (does not include small amounts observed in inner canthus of normal animals)                                                                    |              | 1                         |
| Discharge with moistening of the lids and hairs just adjacent to lids                                                                                                                |              | 2                         |
| Discharge with moistening of the lids and hairs, and considerable area around the eye                                                                                                |              | 3                         |
| <b>Score (D + E + F) x 2</b>                                                                                                                                                         |              | <b>Total Maximum = 20</b> |
| <b>Maximum possible score = 80 + 10 + 20 = 110</b>                                                                                                                                   |              |                           |



### 3.3. RANKING OF CHEMICALS SELECTED

The eye irritation potential of chemicals is often summarised as the Maximum Average Score (MAS). The MAS is obtained by averaging the individual animal weighted scores at each time of observation (e.g. 1 day, 2 days) and then selecting the highest (maximum) of these averages.

Not all the *in vivo* assays which qualified chemicals for inclusion in this report included readings made less than 24 hours after instillation. Consequently, for consistency, the scores given in Table 3 and 4, and in the Appendix are by "Modified Maximum Average Score" (MMAS) in that they represent maxima calculated at 24 hours (or more) following instillation. Selected chemicals are ranked by increasing MMAS in Table 3, and by chemical type and increasing MMAS in Table 4 and the Appendix.

All scores, including (where available) observations made within 24 hours following instillation are given in the data sheets which comprise the Appendix. Tables 3 and 4 refer the reader to these data sheets.

### 3.4. CLASSIFICATION SCHEMES

Data obtained from the *in vivo* rabbit eye test are used to assess ocular hazard of materials to man, and in many cases to meet regulatory requirements for classification of a material for its potential irritancy to the eye. Different national and international schemes, to which the reader is referred, are in current use to classify the ocular hazard from the results obtained, e.g. in the USA and EU (NAS, 1977; FIFRA and US-EPA, 1990; EEC, 1993). Additional guidance in the application of such classification schemes has also been developed, see for example ECETOC (1997).

**Table 3: Chemicals Ranked by MMAS<sup>a</sup>**

| MMAS range<br>(No. of test<br>materials) | Chemical <sup>b</sup>                                  | MMAS | Page No.<br>(Appendix) |
|------------------------------------------|--------------------------------------------------------|------|------------------------|
| <b>Zero</b><br>(19)                      | * Bromo-2-butane                                       | 0    | 107                    |
|                                          | * 1-Bromo-4-chlorobutane                               | 0    | 108                    |
|                                          | * Dichlorotoluenes                                     | 0    | 83                     |
|                                          | * 3,3-Dimethylpentane                                  | 0    | 125                    |
|                                          | * 2-( <i>n</i> -Dodecylthio)ethanol (solid)            | 0    | 215                    |
|                                          | * 2-Ethoxyethyl methacrylate                           | 0    | 37                     |
|                                          | * Ethyleneglycol diethylether                          | 0    | 119                    |
|                                          | * 2-Ethylhexylthioglycolate                            | 0    | 216                    |
|                                          | * Ethylthioethyl methacrylate                          | 0    | 38                     |
|                                          | * Ethyltriglycol methacrylate                          | 0    | 39                     |
|                                          | * 3-Methoxy-1,2-propanediol                            | 0    | 52                     |
|                                          | * 4,4-Methylene bis-(2,6-di- <i>tert</i> -butylphenol) | 0    | 84                     |
|                                          | * <i>p</i> -Methylthiobenzaldehyde                     | 0    | 217                    |
|                                          | * Nonyl acrylate                                       | 0    | 40                     |
|                                          | * Nonyl methacrylate                                   | 0    | 41                     |
|                                          | * <i>n</i> -Octyl bromide                              | 0    | 109                    |
|                                          | Polyethylene glycol 400                                | 0    | 195                    |

**Table 3: Chemicals Ranked by MMAS<sup>a</sup>**

| MMAS range<br>(No. of test<br>materials) | Chemical <sup>b</sup>                       | MMAS | Page No.<br>(Appendix) |
|------------------------------------------|---------------------------------------------|------|------------------------|
| <b>0.1-10</b><br>(54)                    | * Potassium tetrafluoroborate (solid)       | 0    | 142                    |
|                                          | * <i>iso</i> -Stearyl alcohol               | 0    | 51                     |
|                                          | * Di- <i>iso</i> -butyl ketone <sup>c</sup> | 0.7  | 148                    |
|                                          | 3-Methylhexane                              | 0.7  | 126                    |
|                                          | * <i>iso</i> -Octyl acrylate                | 0.7  | 42                     |
|                                          | * <i>iso</i> -Octylthioglycolate            | 0.7  | 218                    |
|                                          | 4-Bromophenetole                            | 1.3  | 86                     |
|                                          | * Di- <i>n</i> -propyl disulphide           | 1.3  | 219                    |
|                                          | * Heptyl methacrylate                       | 1.3  | 43                     |
|                                          | * <i>n</i> -Hexyl bromide                   | 1.3  | 110                    |
|                                          | * Myristyl myristate (solid)                | 1.3  | 117                    |
|                                          | * 2,4-Pentanediol                           | 1.3  | 53                     |
|                                          | Propylene glycol                            | 1.3  | 54                     |
|                                          | * <i>iso</i> -Propyl <i>iso</i> -stearate   | 1.3  | 118                    |
|                                          | * Trifluoroethyl methacrylate               | 1.3  | 44                     |
|                                          | Xylene [1 x] <sup>d</sup>                   | 1.5  | 87                     |
|                                          | 3-Chloro-4-fluoronitrobenzene               | 1.7  | 89                     |
|                                          | Glycerol                                    | 1.7  | 56                     |
|                                          | Triton X-100 <sup>e</sup> (1 %)             | 1.7  | 197                    |
|                                          | * <i>n</i> -Amyl bromide                    | 2.0  | 111                    |
|                                          | 1,9-Decadiene                               | 2.0  | 130                    |
|                                          | * 1,6-Dibromohexane                         | 2.0  | 112                    |
|                                          | 1,3-Di- <i>iso</i> -propyl benzene          | 2.0  | 91                     |
|                                          | Dodecane                                    | 2.0  | 132                    |
|                                          | * Glycerol tri- <i>iso</i> -stearate        | 2.0  | 226                    |
|                                          | 2-Methylpentane                             | 2.0  | 128                    |
|                                          | 1-Methylpropyl benzene                      | 2.0  | 93                     |
|                                          | Polyethylene glycol 600                     | 2.0  | 199                    |
|                                          | 3-Ethyltoluene                              | 2.3  | 95                     |
|                                          | Cetylpyridinium bromide (0.1 %)             | 2.7  | 187                    |
|                                          | Methyl trimethyl acetate                    | 2.7  | 16                     |
|                                          | * <i>iso</i> -Propyl bromide                | 2.7  | 113                    |
|                                          | 1,5-Dimethyl cyclo-octadiene                | 2.8  | 134                    |
|                                          | <i>cis</i> -Cyclo-octene                    | 3.3  | 136                    |
|                                          | * <i>iso</i> -Stearic acid                  | 3.3  | 120                    |
|                                          | Igepon AC-78 <sup>f</sup> (0.5 %)           | 3.7  | 209                    |
|                                          | Methyl cyclopentane                         | 3.7  | 138                    |
|                                          | Ethyl trimethyl acetate                     | 3.8  | 18                     |
|                                          | * 1,4-Dibromobutane                         | 4.0  | 114                    |
|                                          | * 1,5-Dibromopentane                        | 4.0  | 115                    |
|                                          | * 1,3-Dibromopropane                        | 4.0  | 116                    |
|                                          | * <i>iso</i> -Myristyl alcohol              | 4.0  | 58                     |
|                                          | Tween 20 <sup>g</sup>                       | 4.0  | 201                    |
|                                          | 2,4-Difluoronitrobenzene                    | 4.7  | 97                     |
|                                          | 1,5-Hexadiene                               | 4.7  | 140                    |
|                                          | Methyl <i>iso</i> -butyl ketone             | 4.8  | 149                    |
|                                          | * Thiodiglycol                              | 5.3  | 220                    |
|                                          | * Allyl methacrylate                        | 5.8  | 45                     |
|                                          | N,N-Dimethyl guanidine sulphate (solid)     | 6.7  | 227                    |
|                                          | Trichloroacetic acid (3 %)                  | 6.7  | 30                     |
|                                          | Styrene                                     | 6.8  | 99                     |
|                                          | <i>n</i> -Butyl acetate                     | 7.5  | 20                     |
|                                          | * 2,2-Dimethyl-3-pentanol                   | 8.3  | 59                     |
|                                          | * 1,2,3-Trimercaptopropane                  | 8.7  | 221                    |
|                                          | Toluene                                     | 9.0  | 101                    |
|                                          | Xylene [2 x] <sup>d</sup>                   | 9.0  | 103                    |

**Table 3: Chemicals Ranked by MMAS<sup>a</sup>**

| MMAS range<br>(No. of test<br>materials) | Chemical <sup>b</sup>                              | MMAS | Page No.<br>(Appendix) |
|------------------------------------------|----------------------------------------------------|------|------------------------|
| <b>10 - 20</b><br>(12)                   | * Tetra-aminopyrimidine sulphate (solid)           | 10.3 | 122                    |
|                                          | Methyl amyl ketone [1 x] <sup>d</sup>              | 10.5 | 151                    |
|                                          | * 2-Methyl-1-pentanol                              | 13.0 | 60                     |
|                                          | * Fomesafen, acid form (solid)                     | 13.5 | 163                    |
|                                          | * 3-Chloropropionitrile                            | 13.7 | 159                    |
|                                          | * Maneb (solid)                                    | 14.3 | 164                    |
|                                          | Cellosolve acetate <sup>h</sup>                    | 15.0 | 22                     |
|                                          | Ethyl acetate                                      | 15.0 | 24                     |
|                                          | Sodium lauryl sulphate (3 %)                       | 16.0 | 174                    |
|                                          | Methyl amyl ketone [2 x] <sup>d</sup>              | 16.3 | 153                    |
|                                          | Ethyl-2-methyl acetoacetate                        | 18.0 | 26                     |
|                                          | Ammonium nitrate (solid)                           | 18.3 | 143                    |
| <b>20 - 30</b><br>(9)                    | * Cyclopentanol                                    | 21.7 | 61                     |
|                                          | * Soap from 80/20 tallow/coconut oil (solid)       | 23.3 | 171                    |
|                                          | 2,6-Dichlorobenzoyl chloride                       | 23.8 | 49                     |
|                                          | * Ethanol                                          | 24.0 | 62                     |
|                                          | * Ethyl Thioglycolate                              | 24.7 | 222                    |
|                                          | Sodium hydroxide (1 %)                             | 25.8 | 80                     |
|                                          | * Methyl cyanoacetate                              | 27.7 | 27                     |
|                                          | * Glycidyl methacrylate                            | 28.0 | 47                     |
|                                          | * 2,5-Dimethylhexanediol (solid)                   | 28.3 | 63                     |
| <b>30 - 40</b><br>(14)                   | * Dibenzyl phosphate (solid)                       | 30.0 | 161                    |
|                                          | <i>iso</i> -Propanol                               | 30.5 | 64                     |
|                                          | Sodium perborate tetrahydrate (solid)              | 30.5 | 144                    |
|                                          | * Potassium cyanate (solid)                        | 31.3 | 146                    |
|                                          | * Soap from 80/20-Palm oil/coconut oil             | 31.3 | 172                    |
|                                          | * 3,3'-Dithiopropionic acid (solid)                | 31.7 | 223                    |
|                                          | Triton X-100 <sup>e</sup> (5 %) [1 x] <sup>d</sup> | 32.3 | 203                    |
|                                          | Triton X-100 <sup>e</sup> (5 %) [2 x] <sup>d</sup> | 33.8 | 205                    |
|                                          | Benzalkonium chloride (1 %) [1 x] <sup>d</sup>     | 34.3 | 180                    |
|                                          | Cetylpyridinium bromide (1 %)                      | 36.0 | 189                    |
|                                          | * Dibenzoyl-L-tartaric acid (solid)                | 36.7 | 32                     |
|                                          | Igepon AC-78 <sup>f</sup> (10 %)                   | 36.8 | 211                    |
|                                          | * L-Aspartic acid (solid)                          | 37.3 | 33                     |
|                                          | * Lauric acid (solid)                              | 38.0 | 121                    |
| <b>40 - 50</b><br>(8)                    | Methyl acetate                                     | 39.5 | 28                     |
|                                          | * <i>n</i> -Octanol                                | 41.0 | 66                     |
|                                          | * $\gamma$ -Butyrolactone                          | 43.0 | 228                    |
|                                          | * Furfuryl alcohol                                 | 44   | 67                     |
|                                          | 2,2-Dimethyl butanoic acid                         | 44.7 | 34                     |
|                                          | * Methoxyethyl acrylate                            | 45.0 | 48                     |
|                                          | * Sodium undecylenate (33.2 %)                     | 45   | 173                    |
|                                          | * 1-Naphthalene acetic acid (solid)                | 46.7 | 166                    |
|                                          | * Pyridine                                         | 48.0 | 123                    |
| <b>50 - 60</b><br>(9)                    | Methyl ethyl ketone                                | 50.0 | 155                    |
|                                          | 4-Carboxybenzaldehyde (solid)                      | 50.3 | 79                     |
|                                          | 2-Ethyl-1-hexanol                                  | 51.3 | 68                     |
|                                          | Igepon AC-78 <sup>f</sup> (5 %)                    | 51.7 | 213                    |
|                                          | * Methyl thioglycolate                             | 53.0 | 224                    |
|                                          | * Calcium sulphhydrate solution (20.0 %)           | 55   | 225                    |
|                                          | Benzalkonium chloride (1 %) [2 x] <sup>d</sup>     | 56.3 | 182                    |
|                                          | Sodium lauryl sulphate (15 %)                      | 59.2 | 176                    |
|                                          | * Imidazole (solid)                                | 59.3 | 124                    |

**Table 3: Chemicals Ranked by MMAS<sup>a</sup>**

| MMAS range<br>(No. of test materials) | Chemical <sup>b</sup>                            | MMAS | Page No.<br>(Appendix) |
|---------------------------------------|--------------------------------------------------|------|------------------------|
| <b>60 - 70</b><br>(11)                | <i>iso</i> -Butanol                              | 60.3 | 70                     |
|                                       | Sodium lauryl sulphate (30 %)                    | 60.5 | 178                    |
|                                       | <i>n</i> -Butanol                                | 60.8 | 72                     |
|                                       | * Sodium oxalate (solid)                         | 61.3 | 147                    |
|                                       | * Diethyl aminopropionitrile                     | 62.3 | 160                    |
|                                       | * 1-Naphthalene acetic acid, sodium salt (solid) | 64.5 | 168                    |
|                                       | <i>n</i> -Hexanol                                | 64.8 | 74                     |
|                                       | Acetone                                          | 65.8 | 157                    |
|                                       | Butyl cellosolve <sup>i</sup>                    | 68.7 | 76                     |
|                                       | Triton X-100 <sup>g</sup> (10 %)                 | 68.7 | 207                    |
|                                       | <i>p</i> -Fluoroaniline                          | 69.8 | 105                    |
| <b>70 - 80</b><br>(2)                 | * Promethazine hydrochloride (solid)             | 71.7 | 229                    |
|                                       | Cyclohexanol                                     | 79.8 | 77                     |
| <b>80 - 90</b><br>(6)                 | * Quinacrine (solid)                             | 82.0 | 230                    |
|                                       | * Chlorhexidine (solid)                          | 82.3 | 231                    |
|                                       | * Captan 90-concentrate (solid)                  | 83.0 | 170                    |
|                                       | Benzalkonium chloride (5 %)                      | 83.8 | 184                    |
|                                       | Cetylpyridinium bromide (6 %)                    | 85.8 | 191                    |
|                                       | Cetylpyridinium bromide (10 %)                   | 89.7 | 193                    |
| <b>&gt; 100</b><br>(4)                | * 1,2,4-Triazole, sodium salt (solid)            | 104  | 232                    |
|                                       | Trichloroacetic acid (30 %)                      | 106  | 36                     |
|                                       | Benzalkonium chloride (10 %)                     | 108  | 186                    |
|                                       | Sodium hydroxide (10 %)                          | 108  | 82                     |

<sup>a</sup> Modified Maximum Average Score

<sup>b</sup> An asterisk (\*) denotes additional chemicals with respect to the 1992 edition

<sup>c</sup> 2,6-Dimethyl-4-heptanone

<sup>d</sup> The same sample of the chemical was retested [1 x, 2 x] in the same laboratory

<sup>e</sup> Polyoxyethylene octylphenol

<sup>f</sup> CN-oil acid ester of sodium isethionate

<sup>g</sup> Sorbitanpolyoxyethylene monolaurate

<sup>h</sup> Ethyleneglycol monoethyl ether acetate

<sup>i</sup> Ethyleneglycol monobutyl ether

**Table 4: Eye Irritation Data Scores Ranked by Chemical Type and Increasing MMAS<sup>a</sup>**

| Chemical <sup>b</sup>                             | Purity (%)      | N <sup>c</sup> | MMAS | Page (Appendix) |
|---------------------------------------------------|-----------------|----------------|------|-----------------|
| <b>Acetates</b> (8 chemicals)                     |                 |                |      |                 |
| Methyl trimethyl acetate                          | 99              | 6              | 2.7  | 16              |
| Ethyl trimethyl acetate                           | 99              | 6              | 3.8  | 18              |
| <i>n</i> -Butyl acetate                           | 99              | 4              | 7.5  | 20              |
| Cellosolve acetate <sup>d</sup>                   | 99              | 4              | 15.0 | 22              |
| Ethyl acetate                                     | 99              | 4              | 15.0 | 24              |
| Ethyl-2-methyl acetoacetate                       | 97 <sup>e</sup> | 3              | 18.0 | 26              |
| * Methyl cyanoacetate                             | 99              | 3              | 27.7 | 27              |
| Methyl acetate                                    | 98              | 4              | 39.5 | 28              |
| <b>Acids</b> (4 chemicals, 5 tests)               |                 |                |      |                 |
| Trichloroacetic acid (3 %)                        | RG <sup>f</sup> | 6              | 6.7  | 30              |
| * Dibenzoyl-L-tartaric acid (solid)               | 98              | 3              | 36.7 | 32              |
| * L-Aspartic acid (solid)                         | 100             | 3              | 37.3 | 33              |
| 2,2-Dimethyl butanoic acid                        | 96              | 6              | 44.7 | 34              |
| Trichloroacetic acid (30 %)                       | RG <sup>f</sup> | 1              | 106  | 36              |
| <b>Acrylates and Methacrylates</b> (11 chemicals) |                 |                |      |                 |
| * 2-Ethoxyethyl methacrylate                      | 99.8            | 3              | 0    | 37              |
| * Ethylthioethyl methacrylate                     | 99.7            | 3              | 0    | 38              |
| * Ethyltriglycol methacrylate                     | 96.1            | 3              | 0    | 39              |
| * Nonyl acrylate                                  | 99              | 3              | 0    | 40              |
| * Nonyl methacrylate                              | 99.0            | 3              | 0    | 41              |
| * <i>iso</i> -Octyl acrylate                      | > 99            | 3              | 0.7  | 42              |
| * Heptyl methacrylate                             | > 99            | 3              | 1.3  | 43              |
| * Trifluoroethyl methacrylate                     | 99.9            | 3              | 1.3  | 44              |
| * Allyl methacrylate                              | 99.6            | 6              | 5.8  | 45              |
| * Glycidyl methacrylate                           | > 99            | 3              | 28.0 | 47              |
| * Methoxyethyl acrylate                           | 99.6            | 3              | 45.0 | 48              |
| <b>Acyl halides</b> (1 chemical)                  |                 |                |      |                 |
| 2,6-Dichlorobenzoyl chloride                      | 99              | 6              | 23.8 | 49              |
| <b>Alcohols</b> (20 chemicals)                    |                 |                |      |                 |
| * <i>iso</i> -Stearyl alcohol                     | -               | 3              | 0    | 51              |
| * 3-Methoxy-1,2-propanediol                       | 98              | 3              | 0    | 52              |
| * 2,4-Pentanediol                                 | 98              | 3              | 1.3  | 53              |
| Propylene glycol                                  | -               | 6              | 1.3  | 54              |
| Glycerol                                          | > 99.5          | 6              | 1.7  | 56              |
| * <i>iso</i> -Myristyl alcohol                    | 92.6            | 3              | 4.0  | 58              |
| * 2,2-Dimethyl-3-pentanol                         | 97              | 3              | 8.3  | 59              |
| * 2-Methyl-1-pentanol                             | 99              | 3              | 13.0 | 60              |
| * Cyclopentanol                                   | 99              | 3              | 21.7 | 61              |
| * Ethanol                                         | 100             | 3              | 24.0 | 62              |
| * 2,5-Dimethylhexanediol (solid)                  | 99.5            | 3              | 28.3 | 63              |
| <i>iso</i> -Propanol                              | 99.9            | 4              | 30.5 | 64              |
| * <i>n</i> -Octanol                               | > 99            | 3              | 41.0 | 66              |
| * Furfuryl alcohol                                | 99              | 1              | 44   | 67              |
| 2-Ethyl-1-hexanol                                 | 99              | 4              | 51.3 | 68              |
| <i>iso</i> -Butanol                               | 99.9            | 4              | 60.3 | 70              |
| <i>n</i> -Butanol                                 | 99.8            | 4              | 60.8 | 72              |
| <i>n</i> -Hexanol                                 | 98              | 4              | 64.8 | 74              |
| Butyl cellosolve <sup>g</sup>                     | 99              | 3              | 68.7 | 76              |
| Cyclohexanol                                      | 97              | 4              | 79.8 | 77              |
| <b>Aldehydes</b> (1 chemical)                     |                 |                |      |                 |
| 4-Carboxybenzaldehyde (solid)                     | > 95            | 3              | 50.3 | 79              |

**Table 4: Eye Irritation Data Scores Ranked by Chemical Type and Increasing MMAS<sup>a</sup>**

| Chemical <sup>b</sup>                                 | Purity (%)      | N <sup>c</sup> | MMAS | Page (Appendix) |
|-------------------------------------------------------|-----------------|----------------|------|-----------------|
| <b>Alkalis</b> (1 chemical, 2 tests)                  |                 |                |      |                 |
| Sodium hydroxide (1 %)                                | RG <sup>f</sup> | 4              | 25.8 | 80              |
| Sodium hydroxide (10 %)                               | RG <sup>f</sup> | 1              | 108  | 82              |
| <b>Aromatics</b> (12 chemicals, 13 tests)             |                 |                |      |                 |
| * Dichlorotoluenes                                    | 99-99.8         | 3              | 0    | 83              |
| 4,4-Methylene bis-(2,6-di- <i>tert</i> -butyl phenol) | 98              | 6              | 0    | 84              |
| 4-Bromophenetole                                      | 99              | 3              | 1.3  | 86              |
| Xylene [1 x] <sup>h</sup>                             | 99              | 4              | 1.5  | 87              |
| 3-Chloro-4-fluoronitrobenzene                         | 98              | 6              | 1.7  | 89              |
| 1,3-Di- <i>iso</i> -propyl benzene                    | 96              | 6              | 2.0  | 91              |
| 1-Methylpropyl benzene                                | > 99.5          | 6              | 2.0  | 93              |
| 3-Ethyltoluene                                        | 99              | 6              | 2.3  | 95              |
| 2,4-Difluoronitrobenzene                              | 99              | 6              | 4.7  | 97              |
| Styrene                                               | 99              | 4              | 6.8  | 99              |
| Toluene                                               | 99              | 4              | 9.0  | 101             |
| Xylene [2 x] <sup>h</sup>                             | 99              | 4              | 9.0  | 103             |
| <i>p</i> -Fluoroaniline                               | 99              | 6              | 69.8 | 105             |
| <b>Brominated derivatives</b> (10 chemicals)          |                 |                |      |                 |
| * Bromo-2-butane                                      | > 99.0          | 3              | 0    | 107             |
| * 1-Bromo-4-chlorobutane                              | 98              | 3              | 0    | 108             |
| * <i>n</i> -Octyl bromide                             | > 99.0          | 3              | 0    | 109             |
| * <i>n</i> -Hexyl bromide                             | > 98.5          | 3              | 1.3  | 110             |
| * <i>n</i> -Amyl bromide                              | > 98.5          | 3              | 2.0  | 111             |
| * 1,6-Dibromohexane                                   | 98.4            | 3              | 2.0  | 112             |
| * <i>iso</i> -Propyl bromide                          | > 99.0          | 3              | 2.7  | 113             |
| * 1,4-Dibromobutane                                   | 99.9            | 3              | 4.0  | 114             |
| * 1,5-Dibromopentane                                  | 99.5            | 3              | 4.0  | 115             |
| * 1,3-Dibromopropane                                  | 98.4            | 3              | 4.0  | 116             |
| <b>Esters</b> (2 chemicals)                           |                 |                |      |                 |
| * Myristyl myristate (solid)                          | 92.6            | 3              | 1.3  | 117             |
| * <i>iso</i> -Propyl <i>iso</i> -stearate             | -               | 3              | 1.3  | 118             |
| <b>Ethers</b> (1 chemical)                            |                 |                |      |                 |
| * Ethyleneglycol diethylether                         | 98              | 3              | 0    | 119             |
| <b>Fatty acids</b> (2 chemicals)                      |                 |                |      |                 |
| * <i>iso</i> -Stearic acid                            | -               | 3              | 3.3  | 120             |
| * Lauric acid (solid)                                 | > 92            | 3              | 38.0 | 121             |
| <b>Heterocyclics</b> (3 chemicals)                    |                 |                |      |                 |
| * Tetra-aminopyrimidine sulphate (solid)              | 97              | 3              | 10.3 | 122             |
| * Pyridine                                            | > 99.9          | 3              | 48.0 | 123             |
| * Imidazole (solid)                                   | 99              | 3              | 59.3 | 124             |
| <b>Hydrocarbons</b> (9 chemicals)                     |                 |                |      |                 |
| * 3,3-Dimethylpentane                                 | 99              | 3              | 0    | 125             |
| 3-Methylhexane                                        | 99              | 6              | 0.7  | 126             |
| 2-Methylpentane                                       | > 99.5          | 6              | 2.0  | 128             |
| 1,9-Decadiene                                         | 98              | 6              | 2.0  | 130             |
| Dodecane                                              | > 99.5          | 6              | 2.0  | 132             |
| 1,5-Dimethyl cyclo-octadiene                          | 96              | 6              | 2.8  | 134             |
| <i>cis</i> -Cyclo-octene                              | 95              | 6              | 3.3  | 136             |
| Methyl cyclopentane                                   | > 99            | 6              | 3.7  | 138             |
| 1,5-Hexadiene                                         | 97              | 6              | 4.7  | 140             |

**Table 4: Eye Irritation Data Scores Ranked by Chemical Type and Increasing MMAS<sup>a</sup>**

| Chemical <sup>b</sup>                                 | Purity (%)      | N <sup>c</sup> | MMAS | Page (Appendix) |
|-------------------------------------------------------|-----------------|----------------|------|-----------------|
| <b>Inorganic chemicals</b> (5 chemicals)              |                 |                |      |                 |
| * Potassium tetrafluoroborate (solid)                 | > 99            | 3              | 0    | 142             |
| Ammonium nitrate (solid)                              | > 99.9          | 3              | 18.3 | 143             |
| Sodium perborate tetrahydrate (solid)                 | 98.6            | 6              | 30.5 | 144             |
| * Potassium cyanate (solid)                           | 97              | 3              | 31.3 | 146             |
| * Sodium oxalate (solid)                              | > 99            | 3              | 61.3 | 147             |
| <b>Ketones</b> (5 chemicals, 6 tests)                 |                 |                |      |                 |
| * Di- <i>iso</i> -butyl ketone <sup>i</sup>           | 99              | 3              | 0.7  | 148             |
| Methyl <i>iso</i> -butyl ketone                       | 98              | 4              | 4.8  | 149             |
| Methyl amyl ketone [1 x] <sup>h</sup>                 | -               | 4              | 10.5 | 151             |
| Methyl amyl ketone [2 x] <sup>h</sup>                 | -               | 4              | 16.3 | 153             |
| Methyl ethyl ketone                                   | 99              | 4              | 50.0 | 155             |
| Acetone                                               | 99              | 4              | 65.8 | 157             |
| <b>Nitriles</b> (2 chemicals)                         |                 |                |      |                 |
| * 3-Chloropropionitrile                               | 99.9            | 3              | 13.7 | 159             |
| * Diethylaminopropionitrile                           | 98.8            | 3              | 62.3 | 160             |
| <b>Organophosphates</b> (1 chemical)                  |                 |                |      |                 |
| * Dibenzyl phosphate (solid)                          | 99              | 3              | 30.0 | 161             |
| <b>Pesticides</b> (5 chemicals)                       |                 |                |      |                 |
| * Fomesafen, acid form (solid)                        | 97.5            | 6              | 13.5 | 162             |
| * Maneb (solid)                                       | 90 <sup>e</sup> | 6              | 14.3 | 164             |
| * 1-Naphthalene acetic acid (solid)                   | 96              | 6              | 46.7 | 166             |
| * 1-Naphthalene acetic acid, sodium salt (solid)      | 95              | 6              | 64.5 | 168             |
| * Captan 90-concentrate (solid)                       | 90              | 3              | 83.0 | 170             |
| <b>Soaps and Surfactants</b> (11 chemicals, 24 tests) |                 |                |      |                 |
| <i>Soaps</i>                                          |                 |                |      |                 |
| * From 80/20 tallow/coconut oil (solid)               | -               | 3              | 23.3 | 171             |
| * From 80/20 palm oil/coconut oil (solid)             | -               | 3              | 31.3 | 172             |
| * Sodium undecylenate (33.2 %)                        | -               | 1              | 45   | 173             |
| <i>Anionics</i>                                       |                 |                |      |                 |
| Sodium lauryl sulphate (3 %)                          | 98              | 6              | 16.0 | 174             |
| Sodium lauryl sulphate (15 %)                         | 98              | 6              | 59.2 | 176             |
| Sodium lauryl sulphate (30 %)                         | 98              | 6              | 60.5 | 178             |
| <i>Cationics</i>                                      |                 |                |      |                 |
| Benzalkonium chloride (1 %) [1 x] <sup>h</sup>        | 98              | 4              | 34.3 | 180             |
| Benzalkonium chloride (1 %) [2 x] <sup>h</sup>        | 98              | 6              | 56.3 | 182             |
| Benzalkonium chloride (5 %)                           | 98              | 4              | 83.8 | 184             |
| Benzalkonium chloride (10 %)                          | 98              | 3              | 108  | 186             |
| Cetylpyridinium bromide (0.1 %)                       | 99              | 6              | 2.7  | 187             |
| Cetylpyridinium bromide (1 %)                         | 99              | 6              | 36.0 | 189             |
| Cetylpyridinium bromide (6 %)                         | 99              | 4              | 85.8 | 191             |
| Cetylpyridinium bromide (10 %)                        | 99              | 6              | 89.7 | 193             |
| <i>Nonionics</i>                                      |                 |                |      |                 |
| Polyethylene glycol 400                               | -               | 6              | 0    | 195             |
| Triton X-100 <sup>j</sup> (1 %)                       | 98              | 6              | 1.7  | 197             |
| Polyethylene glycol 600                               | -               | 6              | 2.0  | 199             |
| Tween 20 <sup>k</sup>                                 | 98              | 4              | 4.0  | 201             |
| Triton X-100 <sup>j</sup> (5 %) [1 x] <sup>h</sup>    | 98              | 6              | 32.3 | 203             |
| Triton X-100 <sup>j</sup> (5 %) [2 x] <sup>h</sup>    | 98              | 6              | 33.8 | 205             |
| Triton X-100 <sup>j</sup> (10 %)                      | 98              | 6              | 68.7 | 207             |

**Table 4: Eye Irritation Data Scores Ranked by Chemical Type and Increasing MMAS<sup>a</sup>**

| Chemical <sup>b</sup>                              | Purity (%) | N <sup>c</sup> | MMAS | Page (Appendix) |
|----------------------------------------------------|------------|----------------|------|-----------------|
| <i>Zwitterionics</i>                               |            |                |      |                 |
| Igepon AC-78 <sup>l</sup> (0.5 %)                  | -          | 6              | 3.7  | 209             |
| Igepon AC-78 <sup>l</sup> (10 %)                   | -          | 6              | 36.8 | 211             |
| Igepon AC-78 <sup>l</sup> (5 %)                    | -          | 6              | 51.7 | 213             |
| <b>Sulphur-containing compounds</b> (11 chemicals) |            |                |      |                 |
| * 2-( <i>n</i> -Dodecylthio)ethanol (solid)        | > 99       | 3              | 0    | 215             |
| * 2-Ethylhexylthioglycolate                        | 99.4       | 3              | 0    | 216             |
| * <i>p</i> -Methylthiobenzaldehyde                 | 98.2       | 3              | 0    | 217             |
| * <i>iso</i> -Octylthioglycolate                   | 99.0       | 3              | 0.7  | 218             |
| * Di- <i>n</i> -propyl disulphide                  | 99.2       | 3              | 1.3  | 219             |
| * Thiodiglycol                                     | 99.8       | 3              | 5.3  | 220             |
| * 1,2,3-Trimercaptopropane                         | 98         | 3              | 8.7  | 221             |
| * Ethylthioglycolate                               | 99.1       | 3              | 24.7 | 222             |
| * 3,3'-Dithiopropionic acid (solid)                | 99         | 3              | 31.7 | 223             |
| * Methylthioglycolate                              | 99.7       | 3              | 53.0 | 224             |
| * Calcium sulphhydrate solution (20 %)             | -          | 1              | 55   | 225             |
| <b>Triglycerides</b> (1 chemical)                  |            |                |      |                 |
| * Glycerol tri- <i>iso</i> -stearate               | -          | 3              | 2.0  | 226             |
| <b>Miscellaneous</b> (6 chemicals)                 |            |                |      |                 |
| N,N-Dimethyl guanidine sulphate (solid)            | > 95       | 3              | 6.7  | 227             |
| * $\gamma$ -Butyrolactone                          | > 99       | 3              | 43.0 | 228             |
| * Promethazine hydrochloride (solid)               | 98         | 3              | 71.7 | 229             |
| * Quinacrine (solid)                               | -          | 3              | 82.0 | 230             |
| * Chlorhexidine (solid)                            | -          | 3              | 82.3 | 231             |
| * 1,2,4-Triazole, sodium salt (solid)              | 99.0       | 1              | 104  | 232             |

<sup>a</sup> Modified Maximum Average Score

<sup>b</sup> An asterisk (\*) denotes additional chemicals with respect to the 1992 edition

<sup>c</sup> Number of animals

<sup>d</sup> Ethyleneglycol monoethyl ether acetate

<sup>e</sup> Approximately

<sup>f</sup> Reagent grade

<sup>g</sup> Ethyleneglycol monobutyl ether

<sup>h</sup> The same sample of the chemical was retested [1 x, 2 x] in the same laboratory

<sup>i</sup> 2,6-Dimethyl-4-heptanone

<sup>j</sup> Polyoxyethylene octylphenol

<sup>k</sup> Sorbitanpolyoxyethylene monolaurate

<sup>l</sup> CN-oil acid ester of sodium isethionate



## **APPENDIX. EYE IRRITATION DATA FOR INDIVIDUAL RABBITS**

All chemicals were tested instilling a volume of 0.1ml, undiluted, except where concentration or weight is specified.

Observation periods up to 24 hours are given in table as hours (h); thereafter the unit used is days.

The chemicals listed in this Appendix may be obtained in 10 g packages from:

Bibra International

Woodmansterne Road

Carshalton Surrey SM5 4DS UK.

### **DISCLAIMER**

The chemicals listed in this Appendix have been assessed by the ECETOC Task Force only in relation to *in vivo* rabbit eye irritation data. No other potentially hazardous properties were reviewed. Users of the chemicals should satisfy themselves with regard to other possible hazardous properties of the chemicals.

**Methyl Trimethyl Acetate**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 598-98-1 | No. of rabbits       | 6      |
| Purity        | 99 %     |                      |        |
| Product No.   | M8,650-2 |                      |        |

|              |               |   | Observation period (days) |           |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h       | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | 2         | 1        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | 2         | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | 1         | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | 10        | 4        | 4        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>10</b> | <b>4</b> | <b>4</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | 2        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | 1        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | 0        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | 6        | 6        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>6</b> | <b>6</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | 1        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | 2        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**Methyl Trimethyl Acetate**

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | 1        | 1        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 2                         | 2        | 2        | 2        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>2</b>                  | <b>2</b> | <b>2</b> | <b>2</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | 1        | 1        | 1        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 2                         | 2        | 2        | 2        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>2</b>                  | <b>2</b> | <b>2</b> | <b>2</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | 1        | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | 1        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 2                         | 4        | 2        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>2</b>                  | <b>4</b> | <b>2</b> | <b>0</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(4+6+0+2+2+2) / 6 = 2.7$**

**Ethyl Trimethyl Acetate**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Aldrich   | Concentration tested | 100 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 3938-95-2 | No. of rabbits       | 6      |
| Purity        | 99 %      |                      |        |
| Product No.   | 23,455-9  |                      |        |

|              |               |   | Observation period (days) |           |           |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h       | 1         | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0         | 1         | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0         | 1         | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0         | 5         | 5        | 5        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0         | 0         | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0         | 0         | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | 2         | 1         | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | 2         | 1         | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | 1         | 1         | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | 10        | 6         | 4        | 4        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>10</b> | <b>11</b> | <b>9</b> | <b>9</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | 1        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | 2        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | 6        | 4        | 4        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>6</b> | <b>4</b> | <b>4</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | 1        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | 1        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | 4        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>4</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**Ethyl Trimethyl Acetate**

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | 1        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 2                         | 2        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>2</b>                  | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | 2        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | 1        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | 6        | 2        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>6</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |           |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h       | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | 2         | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | 2         | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | 1         | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | 10        | 4        | 4        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>10</b> | <b>4</b> | <b>4</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(11+4+2+0+2+4) / 6 = 3.8$**

***n*-Butyl Acetate**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fisher   | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 123-86-4 | No. of rabbits       | 4      |
| Purity        | 99 %     |                      |        |
| Product No.   | B-396    |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 2        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>2</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | 0  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | 0  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | -  | -  | 0  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | 0  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | 0  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1         | 1        | 1        | - | 1        | - | -  | -  | 0  | -  |
|              | Chemosis      | E | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | 0  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | 0  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6         | 2        | 2        | - | 2        | - | -  | -  | 0  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>11</b> | <b>2</b> | <b>2</b> | - | <b>2</b> | - | -  | -  | 0  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6        | 2        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>6</b> | <b>2</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

***n*-Butyl Acetate**

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6         | 2        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>11</b> | <b>2</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(2+11+6+11) / 4 = 7.5$**

**Cellosolve Acetate<sup>a</sup>**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fisher   | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 111-15-9 | No. of rabbits       | 4      |
| Purity        | 99 %     |                      |        |
| Product No.   | 851768   |                      |        |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 1        | - | 0        | - | 0  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 3         | 2         | 1        | - | 0        | - | 0  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 20        | 5        | - | 0        | - | 0  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1        | - | 1        | - | 0  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 1        | - | 0        | - | 0  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 0        | - | 0        | - | 0  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 12        | 4        | - | 2        | - | 0  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>42</b> | <b>32</b> | <b>9</b> | - | <b>2</b> | - | 0  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 1        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8        | 4        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>8</b> | <b>4</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>8</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |



**Cellosolve Acetate<sup>a</sup>**

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0 | 0 | 0 | - | 0 | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0 | 0 | 0 | - | 0 | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0 | 0 | 0 | - | 0 | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0 | 0 | 0 | - | 0 | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0 | 0 | 0 | - | 0 | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1 | 1 | 1 | - | 0 | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0 | 0 | 0 | - | 0 | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0 | 0 | 0 | - | 0 | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2 | 2 | 2 | - | 0 | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | 2 | 2 | 2 | - | 0 | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(42+8+8+2) / 4 = 15.0$**

<sup>a</sup> Ethyleneglycol monoethyl ether acetate

**Ethyl Acetate**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fisher   | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 141-78-6 | No. of rabbits       | 4      |
| Purity        | 99 %     |                      |        |
| Product No.   | E-145    |                      |        |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1         | 1        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8         | 4        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>18</b> | <b>4</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1         | 1        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8         | 4        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>18</b> | <b>4</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1         | 1        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8         | 4        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>13</b> | <b>4</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**Ethyl Acetate**

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6         | 2        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>11</b> | <b>2</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(18+18+13+11) / 4 = 15.0$**

**Ethyl-2-methyl Acetoacetate**

|               |              |                      |        |
|---------------|--------------|----------------------|--------|
| Source        | Fluka        | Concentration tested | 100 %  |
| Specification |              | Volume tested        | 0.1 ml |
| CAS No.       | 609-14-3     | No. of rabbits       | 3      |
| Purity        | 97 % (by GC) |                      |        |
| Product No.   | 65440        |                      |        |

|              |               |   | Observation period (days) |          |           |           |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 1         | 1         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 1         | 1         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 5         | 5         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1         | 2         | 1        | 1        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 1         | 1         | 1        | 1        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 3         | 3         | 1        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 12                        | -        | 10        | 12        | 6        | 4        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>12</b>                 | <b>-</b> | <b>15</b> | <b>17</b> | <b>6</b> | <b>4</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 1         | 1         | 1        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 2         | 2         | 1        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 10        | 10        | 5        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1         | 1         | 1        | 1        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 1         | 1         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 1         | 1         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 14                        | -        | 6         | 6         | 2        | 2        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>14</b>                 | <b>-</b> | <b>16</b> | <b>16</b> | <b>7</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 1         | 1         | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 1                         | -        | 3         | 2         | 1         | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 5                         | -        | 15        | 10        | 5         | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0         | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0         | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1         | 2         | 1         | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 1         | 1         | 1         | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 2         | 1         | 1         | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 14                        | -        | 8         | 8         | 6         | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>19</b>                 | <b>-</b> | <b>23</b> | <b>18</b> | <b>11</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(15+16+23) / 3 = 18.0$**

**\*Methyl Cyanoacetate**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 105-34-0 | No. of rabbits       | 3      |
| Purity        | 99 %     |                      |        |
| Product No.   | 10,842-1 |                      |        |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 0                         | -        | 3         | 3         | 3         | -        | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 15        | 15        | 15        | -        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 0                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 0                         | -        | 5         | 5         | 5         | -        | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 3         | -        | 2        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 2                         | -        | 3         | 3         | 2         | -        | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 0                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 14        | 14        | 12        | -        | 4        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>34</b> | <b>34</b> | <b>32</b> | <b>-</b> | <b>4</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 0                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 0                         | -        | 5         | 5         | 5         | -        | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 3         | -        | 2        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 2                         | -        | 2         | 3         | 2         | -        | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 1                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 12        | 14        | 12        | -        | 4        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>-</b> | <b>17</b> | <b>19</b> | <b>17</b> | <b>-</b> | <b>4</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 1         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 0                         | -        | 3         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 15        | 0         | 0         | -        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 0                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 0                         | -        | 5         | 5         | 5         | -        | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 3         | -        | 0        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 2                         | -        | 2         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 2                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 12                        | -        | 12        | 10        | 10        | -        | 0        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>12</b>                 | <b>-</b> | <b>32</b> | <b>15</b> | <b>15</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(34+17+32) / 3 = 27.7$

**Methyl Acetate**

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Source        | Fisher  | Concentration tested | 100 %  |
| Specification |         | Volume tested        | 0.1 ml |
| CAS No.       | 79-20-9 | No. of rabbits       | 4      |
| Purity        | 98 %    |                      |        |
| Product No.   | M-203   |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 2         | 0         | 0         | - | 0        | - | 0        | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 1         | 0         | 0         | - | 0        | - | 0        | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 10        | 0         | 0         | - | 0        | - | 0        | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 1         | 0         | 0         | - | 0        | - | 0        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0         | - | 0        | - | 0        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1         | 2         | - | 1        | - | 1        | -  | 1        | 0        |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 0        | - | 0        | -  | 0        | 0        |
|              | Discharge     | F | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 10        | 10        | - | 2        | - | 2        | -  | 2        | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>29</b> | <b>10</b> | <b>10</b> | - | <b>2</b> | - | <b>2</b> | -  | <b>2</b> | <b>0</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 10        | 0         | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 1         | 3         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 8         | 14        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>31</b> | <b>18</b> | <b>14</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 4         | 4         | 2         | - | 0        | - | 0        | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 40        | 40        | 20        | - | 0        | - | 0        | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 10        | 10        | 5         | - | 0        | - | 0        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 3         | - | 1        | - | 1        | -  | 1        | 0        |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 2         | - | 1        | - | 1        | -  | 0        | 0        |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 16        | 14        | - | 4        | - | 4        | -  | 2        | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>66</b> | <b>66</b> | <b>39</b> | - | <b>4</b> | - | <b>4</b> | -  | <b>2</b> | <b>0</b> |

**Methyl Acetate**

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0        | - | 1        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 0        | - | 1        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 10        | 0        | - | 5        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 5         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 10        | 6        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>32</b> | <b>25</b> | <b>6</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(29+31+66+32) / 4 = 39.5$**

**Trichloroacetic Acid**

|               |               |                      |        |
|---------------|---------------|----------------------|--------|
| Source        | Fisher        | Concentration tested | 3.0 %  |
| Specification |               | Volume tested        | 0.1 ml |
| CAS No.       | 76-03-9       | No. of rabbits       | 6      |
| Purity        | Reagent grade |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 4        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>4</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 4        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>4</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2        | 2        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 1        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8        | 8        | 4        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>8</b> | <b>8</b> | <b>4</b> | - | <b>0</b> | - | -  | -  | -  | -  |



**Trichloroacetic Acid**

|              |               |   | Observation period (days) |     |    |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----|---|---|---|---|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1  | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0  | 0 | 0 | - | 0 | - | 0  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0  | 0 | 0 | - | 0 | - | 0  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0  | 0 | 0 | - | 0 | - | 0  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0  | 0 | 0 | - | 0 | - | 0  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0  | 0 | 0 | - | 0 | - | 0  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2  | 1 | 1 | - | 1 | - | 0  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2  | 2 | 1 | - | 1 | - | 0  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2  | 0 | 0 | - | 0 | - | 0  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12 | 6 | 4 | - | 4 | - | 0  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | 12 | 6 | 4 | - | 4 | - | 0  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0 | 0 | 0 | - | 0 | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0 | 0 | 0 | - | 0 | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0 | 0 | 0 | - | 0 | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0 | 0 | 0 | - | 0 | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0 | 0 | 0 | - | 0 | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1 | 1 | 1 | - | 0 | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0 | 0 | 0 | - | 0 | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1 | 0 | 0 | - | 0 | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 4 | 2 | 2 | - | 0 | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | 4 | 2 | 2 | - | 0 | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0 | 0 | 0 | - | 0 | - | 0  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0 | 0 | 0 | - | 0 | - | 0  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0 | 0 | 0 | - | 0 | - | 0  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0 | 0 | 0 | - | 0 | - | 0  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0 | 0 | 0 | - | 0 | - | 0  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2 | 1 | 1 | - | 1 | - | 0  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1 | 1 | 1 | - | 1 | - | 0  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1 | 1 | 1 | - | 1 | - | 0  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8 | 6 | 6 | - | 6 | - | 0  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | 8 | 6 | 6 | - | 6 | - | 0  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(4+4+8+12+4+8) / 6 = 6.7$**

**\*Dibenzoyl-L-tartaric Acid**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Aldrich   | Concentration tested | 100 %  |
| Specification |           | Weight tested        | 100 mg |
| CAS No.       | 2743-38-6 | No. of rabbits       | 3      |
| Purity        | 98 %      |                      |        |
| Product No.   | 34,584-9  |                      |        |

|              |               |   | Observation period (days) |          |           |           |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 3         | 3         | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 1                         | -        | 1         | 1         | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 5                         | -        | 15        | 15        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 2         | 1        | 1        | 0        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 2                         | -        | 3         | 2         | 1        | 1        | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 2                         | -        | 3         | 1         | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 12                        | -        | 16        | 10        | 4        | 4        | 0        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>22</b>                 | <b>-</b> | <b>36</b> | <b>30</b> | <b>4</b> | <b>4</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 3         | 3         | 3         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 1                         | -        | 1         | 1         | 1         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 5                         | -        | 15        | 15        | 15        | 0        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 1                         | -        | 0         | 0         | 0         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 5                         | -        | 0         | 0         | 0         | 0        | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 2         | 1         | 1        | 0        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 3                         | -        | 2         | 1         | 1         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 2                         | -        | 2         | 0         | 0         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 14                        | -        | 12        | 6         | 4         | 2        | 0        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>24</b>                 | <b>-</b> | <b>27</b> | <b>21</b> | <b>19</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |           |          |          |          |           |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7         | 9        | 10       | 12       | 14        | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 3         | 3         | 3         | 3         | 3         | -        | -        | -        | 2         | -        |
|              | Area involved | B | 4                         | -        | 2         | 2         | 1         | 1         | 1         | -        | -        | -        | 2         | -        |
|              | (AxB) x 5     |   | 20                        | -        | 30        | 30        | 15        | 15        | 15        | -        | -        | -        | 20        | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | 1         | 1         | -        | -        | -        | 1         | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | 5         | 5         | -        | -        | -        | 5         | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 3         | 3         | 3         | 3         | -        | -        | -        | 2         | -        |
|              | Chemosis      | E | 3                         | -        | 2         | 3         | 3         | 3         | 3         | -        | -        | -        | 2         | -        |
|              | Discharge     | F | 2                         | -        | 2         | 2         | 2         | 2         | 2         | -        | -        | -        | 0         | -        |
|              | (D+E+F) x 2   |   | 14                        | -        | 12        | 16        | 16        | 16        | 16        | -        | -        | -        | 8         | -        |
| <b>Total</b> |               |   | <b>39</b>                 | <b>-</b> | <b>47</b> | <b>51</b> | <b>36</b> | <b>36</b> | <b>36</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>33</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(36+27+47) / 3 = 36.7$

**\*L-Aspartic Acid**

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Source        | Degussa | Concentration tested | 100 %  |
| Specification |         | Weight tested        | 100 mg |
| CAS No.       | 70-47-3 | No. of rabbits       | 3      |
| Purity        | 100 %   |                      |        |

|              |               |   | Observation period (days) |          |           |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 1        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 2                         | -        | 2         | 1        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 10                        | -        | 10        | 5        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 1         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 5         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 3         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 1         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 1         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 10        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>18</b>                 | <b>-</b> | <b>25</b> | <b>5</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 1         | 1         | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 2                         | -        | 2         | 1         | 1         | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 10                        | -        | 10        | 5         | 5         | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 1         | 1         | 1         | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 5         | 5         | 5         | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 3         | 1         | 1         | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 1         | 0         | 0         | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 2         | 1         | 1         | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 12        | 4         | 4         | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>18</b>                 | <b>-</b> | <b>27</b> | <b>14</b> | <b>14</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 3         | 2         | 2         | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 2                         | -        | 3         | 2         | 2         | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 20                        | -        | 45        | 20        | 20        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 3         | 1         | 1         | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 1         | 0         | 0         | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 1         | 1         | 1         | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 10        | 4         | 4         | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>31</b>                 | <b>-</b> | <b>60</b> | <b>29</b> | <b>29</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (25+27+60) / 3 = 37.3**

**2,2-Dimethyl Butanoic Acid**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Aldrich   | Concentration tested | 100 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 595-37-9  | No. of rabbits       | 6      |
| Purity        | 96 %      |                      |        |
| Product No.   | D15,260-9 |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |    |    |                |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----|----|----------------|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10 | 12 | 14             | 21 |
| Cornea       | Opacity       | A | 1                         | -   | 1         | 1         | 2         | - | 2         | - | -  | -  | 2 <sup>a</sup> | -  |
|              | Area involved | B | 4                         | -   | 4         | 4         | 4         | - | 4         | - | -  | -  | 4              | -  |
|              | (AxB) x 5     |   | 20                        | -   | 20        | 20        | 40        | - | 40        | - | -  | -  | 40             | -  |
| Iris         |               | C | 0                         | -   | 0         | 1         | 1         | - | 1         | - | -  | -  | 1              | -  |
|              | C x 5         |   | 0                         | -   | 0         | 5         | 5         | - | 5         | - | -  | -  | 5              | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 2         | 2         | 2         | - | 2         | - | -  | -  | 0              | -  |
|              | Chemosis      | E | 1                         | -   | 1         | 0         | 0         | - | 0         | - | -  | -  | 0              | -  |
|              | Discharge     | F | 1                         | -   | 1         | 1         | 2         | - | 1         | - | -  | -  | 0              | -  |
|              | (D+E+F) x 2   |   | 8                         | -   | 8         | 6         | 8         | - | 6         | - | -  | -  | 0              | -  |
| <b>Total</b> |               |   | <b>28</b>                 | -   | <b>28</b> | <b>31</b> | <b>53</b> | - | <b>51</b> | - | -  | -  | <b>45</b>      | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |    |    |                |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----|----|----------------|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10 | 12 | 14             | 21 |
| Cornea       | Opacity       | A | 2                         | -   | 2         | 1         | 1         | - | 2         | - | -  | -  | 1 <sup>a</sup> | -  |
|              | Area involved | B | 4                         | -   | 4         | 4         | 4         | - | 4         | - | -  | -  | 3              | -  |
|              | (AxB) x 5     |   | 40                        | -   | 40        | 20        | 20        | - | 40        | - | -  | -  | 15             | -  |
| Iris         |               | C | 1                         | -   | 0         | 0         | 0         | - | 0         | - | -  | -  | 0              | -  |
|              | C x 5         |   | 5                         | -   | 0         | 0         | 0         | - | 0         | - | -  | -  | 0              | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 2         | 2         | 2         | - | 2         | - | -  | -  | 0              | -  |
|              | Chemosis      | E | 1                         | -   | 1         | 0         | 0         | - | 0         | - | -  | -  | 0              | -  |
|              | Discharge     | F | 1                         | -   | 0         | 1         | 1         | - | 0         | - | -  | -  | 0              | -  |
|              | (D+E+F) x 2   |   | 8                         | -   | 6         | 6         | 6         | - | 4         | - | -  | -  | 0              | -  |
| <b>Total</b> |               |   | <b>53</b>                 | -   | <b>46</b> | <b>26</b> | <b>26</b> | - | <b>44</b> | - | -  | -  | <b>15</b>      | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |    |    |           |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----|----|-----------|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10 | 12 | 14        | 21 |
| Cornea       | Opacity       | A | 1                         | -   | 1         | 1         | 1         | - | 1         | - | -  | -  | 1         | -  |
|              | Area involved | B | 4                         | -   | 4         | 4         | 4         | - | 4         | - | -  | -  | 2         | -  |
|              | (AxB) x 5     |   | 20                        | -   | 20        | 20        | 20        | - | 20        | - | -  | -  | 10        | -  |
| Iris         |               | C | 0                         | -   | 0         | 0         | 0         | - | 0         | - | -  | -  | 0         | -  |
|              | C x 5         |   | 0                         | -   | 0         | 0         | 0         | - | 0         | - | -  | -  | 0         | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 2         | 2         | 2         | - | 1         | - | -  | -  | 0         | -  |
|              | Chemosis      | E | 3                         | -   | 1         | 0         | 0         | - | 0         | - | -  | -  | 0         | -  |
|              | Discharge     | F | 1                         | -   | 0         | 1         | 1         | - | 0         | - | -  | -  | 0         | -  |
|              | (D+E+F) x 2   |   | 12                        | -   | 6         | 6         | 6         | - | 2         | - | -  | -  | 0         | -  |
| <b>Total</b> |               |   | <b>32</b>                 | -   | <b>26</b> | <b>26</b> | <b>26</b> | - | <b>22</b> | - | -  | -  | <b>10</b> | -  |

**2,2-Dimethyl Butanoic Acid**

|              |               |   | Observation period (days) |          |           |           |           |          |           |          |          |          |                |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|----------------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7         | 9        | 10       | 12       | 14             | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 2         | 2         | 2         | -        | 2         | -        | -        | -        | 1 <sup>a</sup> | -        |
|              | Area involved | B | 4                         | -        | 4         | 4         | 4         | -        | 4         | -        | -        | -        | 4              | -        |
|              | (AxB) x 5     |   | 40                        | -        | 40        | 40        | 40        | -        | 40        | -        | -        | -        | 20             | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | -        | 1         | -        | -        | -        | 0              | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | -        | 5         | -        | -        | -        | 0              | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 2         | 2         | -        | 2         | -        | -        | -        | 0              | -        |
|              | Chemosis      | E | 2                         | -        | 1         | 1         | 1         | -        | 0         | -        | -        | -        | 0              | -        |
|              | Discharge     | F | 1                         | -        | 1         | 2         | 2         | -        | 1         | -        | -        | -        | 0              | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 8         | 10        | 10        | -        | 6         | -        | -        | -        | 0              | -        |
| <b>Total</b> |               |   | <b>55</b>                 | <b>-</b> | <b>53</b> | <b>55</b> | <b>55</b> | <b>-</b> | <b>51</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>20</b>      | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |                |          |          |          |                |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------------|----------|----------|----------|----------------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7              | 9        | 10       | 12       | 14             | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 1         | 2         | -        | 3 <sup>a</sup> | -        | -        | -        | 3 <sup>a</sup> | -        |
|              | Area involved | B | 4                         | -        | 4         | 4         | 4         | -        | 4              | -        | -        | -        | 4              | -        |
|              | (AxB) x 5     |   | 20                        | -        | 20        | 20        | 40        | -        | 60             | -        | -        | -        | 60             | -        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 1         | -        | 1              | -        | -        | -        | 2              | -        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 5         | -        | 5              | -        | -        | -        | 10             | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 2         | 2         | -        | 2              | -        | -        | -        | 1              | -        |
|              | Chemosis      | E | 2                         | -        | 1         | 0         | 1         | -        | 1              | -        | -        | -        | 0              | -        |
|              | Discharge     | F | 1                         | -        | 1         | 0         | 2         | -        | 1              | -        | -        | -        | 0              | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 8         | 4         | 10        | -        | 8              | -        | -        | -        | 2              | -        |
| <b>Total</b> |               |   | <b>30</b>                 | <b>-</b> | <b>28</b> | <b>24</b> | <b>55</b> | <b>-</b> | <b>73</b>      | <b>-</b> | <b>-</b> | <b>-</b> | <b>72</b>      | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |           |          |          |          |                |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|----------------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7         | 9        | 10       | 12       | 14             | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 2         | 2         | 2         | -        | 1         | -        | -        | -        | 2 <sup>a</sup> | -        |
|              | Area involved | B | 4                         | -        | 4         | 4         | 4         | -        | 4         | -        | -        | -        | 4              | -        |
|              | (AxB) x 5     |   | 40                        | -        | 40        | 40        | 40        | -        | 20        | -        | -        | -        | 40             | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | -        | 0         | -        | -        | -        | 0              | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | -        | 0         | -        | -        | -        | 0              | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 2         | 2         | -        | 1         | -        | -        | -        | 0              | -        |
|              | Chemosis      | E | 2                         | -        | 2         | 1         | 1         | -        | 0         | -        | -        | -        | 0              | -        |
|              | Discharge     | F | 1                         | -        | 1         | 1         | 1         | -        | 0         | -        | -        | -        | 0              | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 10        | 8         | 8         | -        | 2         | -        | -        | -        | 0              | -        |
| <b>Total</b> |               |   | <b>55</b>                 | <b>-</b> | <b>55</b> | <b>53</b> | <b>53</b> | <b>-</b> | <b>22</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>40</b>      | <b>-</b> |

**MMAS (Modified Maximum Average Score) (53+26+26+55+55+53) / 6 = 44.7**

<sup>a</sup> Corneal vascularisation

NB Test Terminated at 14 days

**Trichloroacetic Acid**

|               |               |                      |        |
|---------------|---------------|----------------------|--------|
| Source        | Fisher        | Concentration tested | 30.0 % |
| Specification |               | Volume tested        | 0.1 ml |
| CAS No.       | 76-03-9       | No. of rabbits       | 1      |
| Purity        | Reagent Grade |                      |        |

|              |               |   | Observation period (days) |     |                |                |                |   |                |   |                |    |                |                |
|--------------|---------------|---|---------------------------|-----|----------------|----------------|----------------|---|----------------|---|----------------|----|----------------|----------------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1              | 2              | 3              | 4 | 7              | 9 | 10             | 12 | 14             | 21             |
| Cornea       | Opacity       | A | -                         | -   | 4              | 4              | 4              | - | 3              | - | 3              | -  | 3              | 2              |
|              | Area involved | B | -                         | -   | 4              | 4              | 4              | - | 4              | - | 4              | -  | 4              | 2              |
|              | (AxB) x 5     |   | -                         | -   | 80             | 80             | 80             | - | 60             | - | 60             | -  | 60             | 20             |
| Iris         |               | C | -                         | -   | 2 <sup>a</sup> | 2 <sup>a</sup> | 2 <sup>a</sup> | - | 2 <sup>a</sup> | - | 2 <sup>a</sup> | -  | 2 <sup>a</sup> | 2 <sup>a</sup> |
|              | C x 5         |   | -                         | -   | 10             | 10             | 10             | - | 10             | - | 10             | -  | 10             | 10             |
| Conjunctiva  | Redness       | D | -                         | -   | 2              | 2              | 2              | - | 2              | - | 1              | -  | 1              | 2              |
|              | Chemosis      | E | -                         | -   | 3              | 3              | 3              | - | 2              | - | 2              | -  | 2              | 2              |
|              | Discharge     | F | -                         | -   | 3              | 3              | 3              | - | 2              | - | 2              | -  | 2              | 2              |
|              | (D+E+F) x 2   |   | -                         | -   | 16             | 16             | 16             | - | 12             | - | 10             | -  | 10             | 12             |
| <b>Total</b> |               |   | -                         | -   | <b>106</b>     | <b>106</b>     | <b>106</b>     | - | <b>82</b>      | - | <b>80</b>      | -  | <b>80</b>      | <b>42</b>      |

**MMAS (Modified Maximum Average Score) = 106**

<sup>a</sup> Maximum score assumed for iris (obscured by opacity)

**\*2-Ethoxyethyl Methacrylate**

|               |                |                      |        |
|---------------|----------------|----------------------|--------|
| Source        | Elf Atochem    | Concentration tested | 100 %  |
| Specification |                | Volume tested        | 0.1 ml |
| CAS No.       | 2370-63-0      | No. of rabbits       | 3      |
| Purity        | 99.8 %         |                      |        |
| Trade Name    | Norsocryl MAEE |                      |        |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (0 + 0 + 0) / 3 = 0**

<sup>a</sup> Evaluation obscured by residual test substance

**\*Ethylthioethyl Methacrylate**

|               |                 |                      |        |
|---------------|-----------------|----------------------|--------|
| Source        | Elf Atochem     | Concentration tested | 100 %  |
| Specification |                 | Volume tested        | 0.1 ml |
| CAS No.       | 14216-25-2      | No. of rabbits       | 3      |
| Purity        | 99.7 %          |                      |        |
| Trade Name    | Norsocryl MAETE |                      |        |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (0 + 0 + 0) / 3 = 0**

<sup>a</sup> Evaluation obscured by residual test substance



**\*Ethyltriglycol Methacrylate**

|               |                 |                      |        |
|---------------|-----------------|----------------------|--------|
| Source        | Elf Atochem     | Concentration tested | 100 %  |
| Specification |                 | Volume tested        | 0.1 ml |
| CAS No.       | 36670-09-2      | No. of rabbits       | 3      |
| Purity        | 96.1 %          |                      |        |
| Trade Name    | Norsocryl ETGMA |                      |        |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 3                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 4                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (0 + 0 + 0) / 3 = 0**

<sup>a</sup> Evaluation obscured by residual test substance

**\*Nonyl Acrylate**

|               |                |                      |        |
|---------------|----------------|----------------------|--------|
| Source        | Elf Atochem    | Concentration tested | 100 %  |
| Specification |                | Volume tested        | 0.1 ml |
| CAS No.       | 2664-55-3      | No. of rabbits       | 3      |
| Purity        | 99 %           |                      |        |
| Trade Name    | Norsocryl ANON |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(0 + 0 + 0) / 3 = 0$**

**\*Nonyl Methacrylate**

|               |                 |                      |        |
|---------------|-----------------|----------------------|--------|
| Source        | Elf Atochem     | Concentration tested | 100 %  |
| Specification |                 | Volume tested        | 0.1 ml |
| CAS No.       | 13453-03-7      | No. of rabbits       | 3      |
| Purity        | 99.0 %          |                      |        |
| Trade Name    | Norsocryl MANON |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(0 + 0 + 0) / 3 = 0$**

**\*iso-Octyl Acrylate**

|               |                     |                      |        |
|---------------|---------------------|----------------------|--------|
| Source        | Elf Atochem         | Concentration tested | 100 %  |
| Specification |                     | Volume tested        | 0.1 ml |
| CAS No.       | 29590-42-9          | No. of rabbits       | 3      |
| Purity        | > 99 %              |                      |        |
| Trade Name    | Norsocryl A iso-OCT |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(2+0+0) / 3 = 0.7$

**\*Heptyl Methacrylate**

|               |                  |                      |        |
|---------------|------------------|----------------------|--------|
| Source        | Elf Atochem      | Concentration tested | 100 %  |
| Specification |                  | Volume tested        | 0.1 ml |
| CAS No.       | 5459-37-0        | No. of rabbits       | 3      |
| Purity        | > 99 %           |                      |        |
| Trade Name    | Norsocryl MAHEPT |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(0+2+2) / 3 = 1.3$**

**\*Trifluoroethyl Methacrylate**

|               |                   |                      |        |
|---------------|-------------------|----------------------|--------|
| Source        | Elf Atochem       | Concentration tested | 100 %  |
| Specification |                   | Volume tested        | 0.1 ml |
| CAS No.       | 392-68-7          | No. of rabbits       | 3      |
| Purity        | 99.9 %            |                      |        |
| Trade Name    | Norsocryl MATRIFE |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(2+2+0) / 3 = 1.3$**

**\*Allyl Methacrylate**

|               |                  |                      |        |
|---------------|------------------|----------------------|--------|
| Source        | Elf Atochem      | Concentration tested | 100 %  |
| Specification |                  | Volume tested        | 0.1 ml |
| CAS No.       | 96-05-9          | No. of rabbits       | 6      |
| Purity        | 99.6 %           |                      |        |
| Trade Name    | Norsocryl MALLYL |                      |        |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0 | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0 | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0 | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0 | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0 | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1 | 1 | 1 | 0 | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1 | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0 | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 4 | 2 | 2 | 0 | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | 4 | 2 | 2 | 0 | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0 | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0 | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0 | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0 | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0 | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1 | 1 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1 | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1 | 1 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6 | 4 | 0 | 0 | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | 6 | 4 | 0 | 0 | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |                |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------------|---|---|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1              | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | - <sup>a</sup> | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1              | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0              | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0              | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0              | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1              | 1 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1              | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0              | 0 | 0 | 0 | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 4              | 2 | 0 | 0 | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | 4              | 2 | 0 | 0 | - | - | -  | -  | -  | -  |

**\*Allyl Methacrylate**

|              |               |   | Observation period (days) |     |          |          |          |          |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|----------|---|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4        | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |          |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|----------|---|---|----|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4        | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2        | 1        | 1        | 0        | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8        | 2        | 2        | 0        | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>8</b> | <b>2</b> | <b>2</b> | <b>0</b> | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |                |          |          |          |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------------|----------|----------|----------|---|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1              | 2        | 3        | 4        | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | - <sup>a</sup> | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1              | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   |                | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1              | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5              | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1              | 1        | 1        | 0        | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1              | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1              | 0        | 0        | 0        | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6              | 2        | 2        | 0        | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>11</b>      | <b>2</b> | <b>2</b> | <b>0</b> | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(4+6+4+2+8+11) / 6 = 5.8$**

<sup>a</sup> Dulling of the cornea



**\*Glycidyl Methacrylate**

|               |                 |                      |        |
|---------------|-----------------|----------------------|--------|
| Source        | Elf Atochem     | Concentration tested | 100 %  |
| Specification |                 | Volume tested        | 0.1 ml |
| CAS No.       | 106-91-2        | No. of rabbits       | 3      |
| Purity        | > 99 %          |                      |        |
| Trade Name    | Norsocryl MAGLY |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | - <sup>a</sup>            | -   | 1         | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 4                         | -   | 4         | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   |                           | -   | 20        | 20        | 20        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 1                         | -   | 1         | 1         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 5                         | -   | 5         | 5         | 5         | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 3         | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 3                         | -   | 4         | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 3                         | -   | 3         | 1         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 16                        | -   | 20        | 10        | 8         | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>45</b> | <b>35</b> | <b>33</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | - <sup>a</sup>            | -   | 1         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 4                         | -   | 2         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   |                           | -   | 10        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 1                         | -   | 0         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 5                         | -   | 0         | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 2         | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1         | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | 3                         | -   | 0         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 14                        | -   | 6         | 4        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>16</b> | <b>4</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | - <sup>a</sup>            | -   | 1         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 4                         | -   | 2         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   |                           | -   | 10        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 1                         | -   | 1         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 5                         | -   | 5         | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 2         | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | 2                         | -   | 1         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 12                        | -   | 8         | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>23</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (45+16+23) / 3 = 28.0**

<sup>a</sup> Dulling of the cornea

**\*Methoxyethyl Acrylate**

|               |               |                      |        |
|---------------|---------------|----------------------|--------|
| Source        | Elf Atochem   | Concentration tested | 100 %  |
| Specification |               | Volume tested        | 0.1 ml |
| CAS No.       | 3121-61-7     | No. of rabbits       | 3      |
| Purity        | 99.6 %        |                      |        |
| Trade Name    | Norsocryl AME |                      |        |

|              |               |   | Observation period (days) |     |                |           |           |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------------|-----------|-----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1              | 2         | 3         | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 4              | 2         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 1              | 1         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 20             | 10        | 0         | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 1              | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 5              | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 2              | 3         | 2         | - | 1        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 2              | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | - <sup>b</sup> | 0         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 14             | 10        | 10        | - | 2        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>39</b>      | <b>20</b> | <b>10</b> | - | <b>2</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |                |                |           |   |           |   |           |    |          |    |
|--------------|---------------|---|---------------------------|-----|----------------|----------------|-----------|---|-----------|---|-----------|----|----------|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1              | 2              | 3         | 4 | 7         | 9 | 10        | 12 | 14       | 21 |
| Cornea       | Opacity       | A | - <sup>c</sup>            | -   | 4              | 3              | 2         | - | 2         | - | 2         | -  | 1        | -  |
|              | Area involved | B | - <sup>c</sup>            | -   | 2              | 2              | 2         | - | 2         | - | 1         | -  | 1        | -  |
|              | (AxB) x 5     |   |                           | -   | 40             | 30             | 20        | - | 20        | - | 10        | -  | 5        | -  |
| Iris         |               | C | - <sup>c</sup>            | -   | 1              | 1              | 1         | - | 1         | - | 1         | -  | 0        | -  |
|              | C x 5         |   |                           | -   | 5              | 5              | 5         | - | 5         | - | 5         | -  | 0        | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 2              | 2              | 3         | - | 3         | - | 3         | -  | 1        | -  |
|              | Chemosis      | E | 3                         | -   | 4              | 4              | 3         | - | 2         | - | 2         | -  | 1        | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 3 <sup>b</sup> | 3 <sup>b</sup> | 0         | - | 0         | - | 0         | -  | 0        | -  |
|              | (D+E+F) x 2   |   |                           | -   | 18             | 18             | 12        | - | 10        | - | 10        | -  | 4        | -  |
| <b>Total</b> |               |   |                           | -   | <b>63</b>      | <b>53</b>      | <b>37</b> | - | <b>35</b> | - | <b>25</b> | -  | <b>9</b> | -  |

|              |               |   | Observation period (days) |     |                |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1              | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 2              | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 1              | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 10             | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 1              | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 5              | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 2              | 3         | 2        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 4              | 3         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 3 <sup>b</sup> | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 18             | 12        | 6        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>33</b>      | <b>12</b> | <b>6</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (39+63+33) / 3 = 45.0**

<sup>a</sup> Evaluation obscured by residual test substance; <sup>b</sup> White purulent discharge, score of 3 assigned;

<sup>c</sup> Evaluation obscured by chemosis

**2,6-Dichlorobenzoyl Chloride**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Aldrich   | Concentration tested | 100 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 4659-45-4 | No. of rabbits       | 6      |
| Purity        | 99 %      |                      |        |
| Product No.   | 18,751-8  |                      |        |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | Area involved | B | 0                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (AxB) x 5     |   | 0                         | -        | 5         | 5         | 5         | -        | 0        | -        | -        | -        | 0        | 0        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 2         | 2         | -        | 1        | -        | -        | -        | 1        | 0        |
|              | Chemosis      | E | 0                         | -        | 1         | 1         | 1         | -        | 1        | -        | -        | -        | 1        | 0        |
|              | Discharge     | F | 1                         | -        | 1         | 2         | 2         | -        | 1        | -        | -        | -        | 1        | 0        |
|              | (D+E+F) x 2   |   | 6                         | -        | 8         | 10        | 10        | -        | 6        | -        | -        | -        | 6        | 0        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>13</b> | <b>15</b> | <b>15</b> | <b>-</b> | <b>6</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>6</b> | <b>0</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |           |          |          |          |           |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|-----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7         | 9        | 10       | 12       | 14        | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 1         | 1         | 1         | -        | 1         | -        | -        | -        | 1         | 0        |
|              | Area involved | B | 0                         | -        | 2         | 2         | 3         | -        | 1         | -        | -        | -        | 1         | 0        |
|              | (AxB) x 5     |   | 0                         | -        | 10        | 10        | 15        | -        | 5         | -        | -        | -        | 5         | 0        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0         | -        | 0         | -        | -        | -        | 0         | 0        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0         | -        | 0         | -        | -        | -        | 0         | 0        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 3         | -        | 2         | -        | -        | -        | 1         | 0        |
|              | Chemosis      | E | 1                         | -        | 2         | 2         | 1         | -        | 2         | -        | -        | -        | 1         | 0        |
|              | Discharge     | F | 1                         | -        | 1         | 2         | 2         | -        | 1         | -        | -        | -        | 1         | 0        |
|              | (D+E+F) x 2   |   | 8                         | -        | 12        | 14        | 12        | -        | 10        | -        | -        | -        | 6         | 0        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>22</b> | <b>24</b> | <b>27</b> | <b>-</b> | <b>15</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>11</b> | <b>0</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | Area involved | B | 0                         | -        | 3         | 3         | 2         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (AxB) x 5     |   | 0                         | -        | 15        | 15        | 10        | -        | 0        | -        | -        | -        | 0        | 0        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 2         | -        | 2        | -        | -        | -        | 1        | 0        |
|              | Chemosis      | E | 1                         | -        | 2         | 2         | 1         | -        | 1        | -        | -        | -        | 1        | 0        |
|              | Discharge     | F | 1                         | -        | 2         | 2         | 2         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (D+E+F) x 2   |   | 8                         | -        | 14        | 14        | 10        | -        | 6        | -        | -        | -        | 4        | 0        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>29</b> | <b>29</b> | <b>20</b> | <b>-</b> | <b>6</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>4</b> | <b>0</b> |

**2,6-Dichlorobenzoyl Chloride**

|              |               |   | Observation period (days) |          |           |           |           |          |           |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7         | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 1         | 1         | 1         | -        | 1         | -        | -        | -        | 1        | 0        |
|              | Area involved | B | 0                         | -        | 2         | 3         | 3         | -        | 1         | -        | -        | -        | 1        | 0        |
|              | (AxB) x 5     |   | 0                         | -        | 10        | 15        | 15        | -        | 5         | -        | -        | -        | 5        | 0        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0         | -        | 0         | -        | -        | -        | 0        | 0        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0         | -        | 0         | -        | -        | -        | 0        | 0        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 3         | -        | 2         | -        | -        | -        | 1        | 0        |
|              | Chemosis      | E | 1                         | -        | 3         | 2         | 1         | -        | 2         | -        | -        | -        | 1        | 0        |
|              | Discharge     | F | 1                         | -        | 2         | 2         | 2         | -        | 0         | -        | -        | -        | 0        | 0        |
|              | (D+E+F) x 2   |   | 8                         | -        | 16        | 14        | 12        | -        | 8         | -        | -        | -        | 4        | 0        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>26</b> | <b>29</b> | <b>27</b> | <b>-</b> | <b>13</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>9</b> | <b>0</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | Area involved | B | 0                         | -        | 3         | 3         | 3         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (AxB) x 5     |   | 0                         | -        | 15        | 15        | 15        | -        | 0        | -        | -        | -        | 0        | 0        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 2         | 2         | -        | 2        | -        | -        | -        | 1        | 0        |
|              | Chemosis      | E | 1                         | -        | 3         | 1         | 1         | -        | 1        | -        | -        | -        | 1        | 0        |
|              | Discharge     | F | 1                         | -        | 2         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (D+E+F) x 2   |   | 8                         | -        | 16        | 8         | 8         | -        | 6        | -        | -        | -        | 4        | 0        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>31</b> | <b>23</b> | <b>23</b> | <b>-</b> | <b>6</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>4</b> | <b>0</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | Area involved | B | 0                         | -        | 2         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (AxB) x 5     |   | 0                         | -        | 10        | 5         | 5         | -        | 0        | -        | -        | -        | 0        | 0        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 2         | 2         | -        | 2        | -        | -        | -        | 1        | 0        |
|              | Chemosis      | E | 1                         | -        | 2         | 1         | 1         | -        | 1        | -        | -        | -        | 1        | 0        |
|              | Discharge     | F | 1                         | -        | 1         | 1         | 2         | -        | 1        | -        | -        | -        | 1        | 0        |
|              | (D+E+F) x 2   |   | 8                         | -        | 12        | 8         | 10        | -        | 8        | -        | -        | -        | 6        | 0        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>22</b> | <b>13</b> | <b>15</b> | <b>-</b> | <b>8</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>6</b> | <b>0</b> |

**MMAS (Modified Maximum Average Score)  $(13+22+29+26+31+22) / 6 = 23.8$**

**\**iso*-Stearyl Alcohol**

|               |                        |                      |        |
|---------------|------------------------|----------------------|--------|
| Source        | Unichema International | Concentration tested | 100 %  |
| Specification |                        | Volume tested        | 0.1 ml |
| CAS No.       | 27458-93-1             | No. of rabbits       | 3      |
| Purity        | -                      |                      |        |
| Trade Name    | Prisorine 3515         |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (0 + 0 + 0) / 3 = 0**

**\*3-Methoxy-1,2-propanediol**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 623-39-2 | No. of rabbits       | 3      |
| Purity        | 98 %     |                      |        |
| Product No.   | 26,040-1 |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>0</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(0 + 0 + 0) / 3 = 0$**

**\*2,4-Pentanediol**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 625-69-4 | No. of rabbits       | 3      |
| Purity        | 98 %     |                      |        |
| Product No.   | 15,601-9 |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 2        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | - <sup>a</sup>            | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   |                           | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 2        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   |                           | <b>-</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(0+2+2) / 3 = 1.3$

<sup>a</sup> Dulling of the cornea

**Propylene Glycol**

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Source        |         | Concentration tested | 100 %  |
| Specification |         | Volume tested        | 0.1 ml |
| CAS No.       | 57-55-6 | No. of rabbits       | 6      |
| Purity        | -       |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |



**Propylene Glycol**

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(2+0+2+2+0) / 6 = 1.3$**



**Glycerol**

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 5                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>15</b>                 | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 5                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>15</b>                 | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(2+2+2+0+2+2) / 6 = 1.7$

**\*iso-Myristyl Alcohol**

|               |             |                      |        |
|---------------|-------------|----------------------|--------|
| Source        | Elf Atochem | Concentration tested | 100 %  |
| Specification |             | Volume tested        | 0.1 ml |
| CAS No.       | 5333-48-2   | No. of rabbits       | 3      |
| Purity        | 92.6 %      |                      |        |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 1 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 4 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | 4 | 0 | 0 | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 1 | 1 | 1 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 2 | 1 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | 3 <sup>b</sup>            | -   | 1 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 12                        | -   | 8 | 4 | 2 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | 12                        | -   | 8 | 4 | 2 | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(4+0+8) / 3 = 4.0$**

<sup>a</sup> Evaluation obscured by residual test substance; <sup>b</sup> White purulent discharge, score of 3 assigned

**\*2,2-Dimethyl-3-pentanol**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Aldrich   | Concentration tested | 100 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 3970-62-5 | No. of rabbits       | 3      |
| Purity        | 97 %      |                      |        |
| Product No.   | D17,362-2 |                      |        |

|              |               |   | Observation period (days) |     |    |    |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----|----|---|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1  | 2  | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 2                         | -   | 2  | 2  | 1 | 0 | 0 | - | -  | -  | -  | -  |
|              | Area involved | B | 1                         | -   | 1  | 1  | 1 | 0 | 0 | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 10                        | -   | 10 | 10 | 5 | 0 | 0 | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0  | 0  | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0  | 0  | 0 | 0 | 0 | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 1  | 1  | 1 | 1 | 0 | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1  | 1  | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Discharge     | F | 2                         | -   | 0  | 0  | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 10                        | -   | 4  | 4  | 2 | 2 | 0 | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | 20                        | -   | 14 | 14 | 7 | 2 | 0 | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | - <sup>a</sup>            | -   | 1 | 1 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Area involved | B | 1                         | -   | 1 | 1 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   |                           | -   | 5 | 5 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 1 | 1 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Discharge     | F | 3                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 12                        | -   | 4 | 2 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 9 | 7 | 0 | 0 | 0 | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | - <sup>a</sup>            | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Area involved | B | 2                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   |                           | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 1 | 1 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Discharge     | F | 2                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 10                        | -   | 2 | 2 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 2 | 2 | 0 | 0 | 0 | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (14+9+2) / 3 = 8.3**

<sup>a</sup> Dulling of the cornea

**\*2-Methyl-1-pentanol**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 105-30-6 | No. of rabbits       | 3      |
| Purity        | 99 %     |                      |        |
| Product No.   | 21,401-9 |                      |        |

|              |               |   | Observation period (days) |     |           |          |          |          |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|----------|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4        | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | - <sup>a</sup>            | -   | 1         | 1        | 0        | 0        | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 3                         | -   | 2         | 1        | 0        | 0        | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   |                           | -   | 10        | 5        | 0        | 0        | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0         | 0        | 0        | 0        | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0         | 0        | 0        | 0        | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 1         | 1        | 1        | 1        | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1         | 1        | 1        | 1        | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 3                         | -   | 0         | 0        | 0        | 0        | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 14                        | -   | 4         | 4        | 4        | 4        | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>14</b> | <b>9</b> | <b>4</b> | <b>4</b> | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |                |                |          |          |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------------|----------------|----------|----------|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1              | 2              | 3        | 4        | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | - <sup>a</sup>            | -   | 1              | 1              | 1        | 1        | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 2                         | -   | 1              | 1              | 1        | 1        | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   |                           | -   | 5              | 5              | 5        | 5        | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0              | 0              | 0        | 0        | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0              | 0              | 0        | 0        | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1 <sup>b</sup>            | -   | 1 <sup>b</sup> | 1 <sup>b</sup> | 0        | 0        | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1              | 0              | 0        | 0        | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 3                         | -   | 0              | 0              | 0        | 0        | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 12                        | -   | 4              | 2              | 0        | 0        | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>9</b>       | <b>7</b>       | <b>5</b> | <b>5</b> | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |          |           |           |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 2         | 2         | 1        | 1        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 1                         | -        | 1         | 1         | 1        | 1        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 10                        | -        | 10        | 10        | 5        | 5        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 2         | 1        | 1        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 3                         | -        | 1         | 1         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 16                        | -        | 6         | 6         | 2        | 2        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>26</b>                 | <b>-</b> | <b>16</b> | <b>16</b> | <b>7</b> | <b>7</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(14+9+16) / 3 = 13.0$**

<sup>a</sup> Dulling of the cornea; <sup>b</sup> Blanching of nictating membrane

**\*Cyclopentanol**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Aldrich   | Concentration tested | 100 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 96-41-3   | No. of rabbits       | 3      |
| Purity        | 99 %      |                      |        |
| Product No.   | C11,220-8 |                      |        |

|              |               |   | Observation period (days) |     |               |               |               |               |          |   |    |    |          |    |
|--------------|---------------|---|---------------------------|-----|---------------|---------------|---------------|---------------|----------|---|----|----|----------|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1             | 2             | 3             | 4             | 7        | 9 | 10 | 12 | 14       | 21 |
| Cornea       | Opacity       | A | <sup>-a</sup>             | -   | 1             | 2             | 2             | 2             | 1        | - | -  | -  | 0        | -  |
|              | Area involved | B | 4                         | -   | 2             | 2             | 2             | 1             | 1        | - | -  | -  | 0        | -  |
|              | (AxB) x 5     |   |                           | -   | 10            | 20            | 20            | 10            | 5        | - | -  | -  | 0        | -  |
| Iris         |               | C | 0                         | -   | 0             | 0             | 0             | 0             | 0        | - | -  | -  | 0        | -  |
|              | C x 5         |   | 0                         | -   | 0             | 0             | 0             | 0             | 0        | - | -  | -  | 0        | -  |
| Conjunctiva  | Redness       | D | <sup>2b</sup>             | -   | <sup>2b</sup> | <sup>2b</sup> | <sup>2c</sup> | <sup>2c</sup> | 1        | - | -  | -  | 0        | -  |
|              | Chemosis      | E | 3                         | -   | 2             | 2             | 2             | 2             | 0        | - | -  | -  | 0        | -  |
|              | Discharge     | F | 3                         | -   | 1             | 1             | 1             | 0             | 0        | - | -  | -  | 0        | -  |
|              | (D+E+F) x 2   |   | 16                        | -   | 10            | 10            | 10            | 8             | 2        | - | -  | -  | 0        | -  |
| <b>Total</b> |               |   |                           | -   | <b>20</b>     | <b>30</b>     | <b>30</b>     | <b>18</b>     | <b>7</b> | - | -  | -  | <b>0</b> | -  |

|              |               |   | Observation period (days) |     |                 |                 |                 |                 |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------------|-----------------|-----------------|-----------------|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1               | 2               | 3               | 4               | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | - <sup>ad</sup>           | -   | 1               | 1               | 1               | 1               | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 2                         | -   | 1               | 1               | 1               | 1               | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   |                           | -   | 5               | 5               | 5               | 5               | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0               | 0               | 0               | 0               | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0               | 0               | 0               | 0               | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2 <sup>b</sup>            | -   | 2 <sup>bc</sup> | 2 <sup>bc</sup> | 2 <sup>bc</sup> | 2 <sup>bc</sup> | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 3                         | -   | 2               | 2               | 1               | 1               | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 3                         | -   | 1               | 1               | 1               | 1               | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 16                        | -   | 10              | 10              | 8               | 8               | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>15</b>       | <b>15</b>       | <b>13</b>       | <b>13</b>       | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |                 |                 |                 |                 |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------------|-----------------|-----------------|-----------------|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1               | 2               | 3               | 4               | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | - <sup>ad</sup>           | -   | 1               | 1               | 1               | 1               | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 2                         | -   | 1               | 2               | 1               | 1               | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   |                           | -   | 5               | 10              | 5               | 5               | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0               | 0               | 0               | 0               | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0               | 0               | 0               | 0               | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2 <sup>b</sup>            | -   | 2 <sup>bc</sup> | 2 <sup>bc</sup> | 2 <sup>bc</sup> | 2 <sup>bc</sup> | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 3                         | -   | 2               | 2               | 2               | 2               | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 3                         | -   | 1               | 1               | 1               | 1               | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 16                        | -   | 10              | 10              | 10              | 10              | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>15</b>       | <b>20</b>       | <b>15</b>       | <b>15</b>       | <b>0</b> | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (30+15+20) / 3 = 21.7**

<sup>a</sup> Dulling of the cornea; <sup>b</sup> Blanching of nictating membrane; <sup>c</sup> Haemorrhaging of blood vessels of the conjunctivae; <sup>d</sup> Stripping of epithelial cells of the cornea

**\*Ethanol**

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Source        | -       | Concentration tested | 100 %  |
| Specification |         | Volume tested        | 0.1 ml |
| CAS No.       | 64-17-5 | No. of rabbits       | 3      |
| Purity        | -       |                      |        |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 1         | 2         | 1         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 3                         | -        | 4         | 3         | 1         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 30                        | -        | 20        | 30        | 5         | 0        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 0                         | -        | 1         | 1         | 1         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 0                         | -        | 5         | 5         | 5         | 0        | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 2         | 2        | 1        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 4                         | -        | 2         | 3         | 1         | 1        | 1        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 2                         | -        | 2         | 2         | 0         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 18                        | -        | 14        | 16        | 6         | 6        | 4        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>48</b>                 | <b>-</b> | <b>39</b> | <b>51</b> | <b>16</b> | <b>6</b> | <b>4</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 2         | 2         | 1         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 2                         | -        | 1         | 1         | 1         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 20                        | -        | 10        | 10        | 5         | 0        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 1                         | -        | 0         | 1         | 0         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 5                         | -        | 0         | 5         | 0         | 0        | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 2         | 2         | 2        | 1        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 3                         | -        | 2         | 2         | 1         | 1        | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 2                         | -        | 1         | 1         | 0         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 16                        | -        | 12        | 10        | 6         | 6        | 2        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>41</b>                 | <b>-</b> | <b>22</b> | <b>25</b> | <b>11</b> | <b>6</b> | <b>2</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 2                         | -        | 1         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 10                        | -        | 5         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 0                         | -        | 0         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 0                         | -        | 0         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 2         | 1        | 1        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 3                         | -        | 1         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 2                         | -        | 0         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 12                        | -        | 6         | 2        | 2        | 0        | 0        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>22</b>                 | <b>-</b> | <b>11</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (39+22+11) = 24.0**



**\*2,5-Dimethylhexanediol**

|               |          |                      |                |
|---------------|----------|----------------------|----------------|
| Source        | BASF     | Concentration tested | 100 %          |
| Specification |          | Weight tested        | 40 mg (0.1 ml) |
| CAS No.       | 110-03-2 | No. of rabbits       | 3              |
| Purity        | 99.5 %   |                      |                |

|              |               |   | Observation period (days) |          |           |           |           |          |           |          |          |          |           |           |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|-----------|-----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 8         | 9        | 10       | 12       | 15        | 21        |
| Cornea       | Opacity       | A | 0                         | -        | 1         | 1         | 1         | -        | 1         | -        | -        | -        | 0         | 0         |
|              | Area involved | B | 0                         | -        | 2         | 2         | 2         | -        | 1         | -        | -        | -        | 0         | 0         |
|              | (AxB) x 5     |   | 0                         | -        | 10        | 10        | 10        | -        | 5         | -        | -        | -        | 0         | 0         |
| Iris         |               | C | 0                         | -        | 1         | 1         | 1         | -        | 1         | -        | -        | -        | 1         | 1         |
|              | C x 5         |   | 0                         | -        | 5         | 5         | 5         | -        | 5         | -        | -        | -        | 5         | 5         |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 3         | -        | 2         | -        | -        | -        | 2         | 2         |
|              | Chemosis      | E | 2                         | -        | 3         | 3         | 2         | -        | 1         | -        | -        | -        | 1         | 1         |
|              | Discharge     | F | 2                         | -        | 2         | 2         | 2         | -        | 2         | -        | -        | -        | 2         | 1         |
|              | (D+E+F) x 2   |   | 12                        | -        | 16        | 16        | 14        | -        | 10        | -        | -        | -        | 10        | 8         |
| <b>Total</b> |               |   | <b>12</b>                 | <b>-</b> | <b>31</b> | <b>31</b> | <b>29</b> | <b>-</b> | <b>20</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>15</b> | <b>13</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 8        | 9        | 10       | 12       | 15       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | Area involved | B | 0                         | -        | 2         | 2         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (AxB) x 5     |   | 0                         | -        | 10        | 10        | 5         | -        | 0        | -        | -        | -        | 0        | 0        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 2         | 2         | -        | 1        | -        | -        | -        | 0        | 0        |
|              | Chemosis      | E | 2                         | -        | 2         | 2         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | Discharge     | F | 3                         | -        | 2         | 1         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (D+E+F) x 2   |   | 14                        | -        | 12        | 10        | 6         | -        | 2        | -        | -        | -        | 0        | 0        |
| <b>Total</b> |               |   | <b>14</b>                 | <b>-</b> | <b>22</b> | <b>20</b> | <b>11</b> | <b>-</b> | <b>2</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>0</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 8        | 9        | 10       | 12       | 15       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | Area involved | B | 0                         | -        | 4         | 4         | 2         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (AxB) x 5     |   | 0                         | -        | 20        | 20        | 10        | -        | 0        | -        | -        | -        | 0        | 0        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 2         | 2         | -        | 1        | -        | -        | -        | 0        | 0        |
|              | Chemosis      | E | 2                         | -        | 2         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | Discharge     | F | 2                         | -        | 2         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (D+E+F) x 2   |   | 12                        | -        | 12        | 8         | 8         | -        | 2        | -        | -        | -        | 0        | 0        |
| <b>Total</b> |               |   | <b>12</b>                 | <b>-</b> | <b>32</b> | <b>28</b> | <b>18</b> | <b>-</b> | <b>2</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>0</b> |

MMAS (Modified Maximum Average Score)  $(31+22+32) / 3 = 28.3$

**iso-Propanol**

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Source        | Fisher  | Concentration tested | 100 %  |
| Specification |         | Volume tested        | 0.1 ml |
| CAS No.       | 67-63-0 | No. of rabbits       | 4      |
| Purity        | 99.9 %  |                      |        |
| Product No.   | 854888  |                      |        |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 5         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1         | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 8         | 4        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>29</b> | <b>18</b> | <b>9</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2        | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1        | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 6        | 4        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>24</b> | <b>6</b> | <b>4</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2        | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1        | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 6        | 4        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>10</b> | <b>6</b> | <b>4</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

**iso-Propanol**

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 3         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 30        | 20        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 10        | 10        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 3         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 3         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 16        | 12        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>59</b> | <b>56</b> | <b>42</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(29+24+10+59) / 4 = 30.5$**

**\*n-Octanol**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 111-87-5 | No. of rabbits       | 3      |
| Purity        | > 99 %   |                      |        |
| Product No.   | 29,324-5 |                      |        |

|              |               |   | Observation period (days) |          |           |           |           |           |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 1         | 1         | 1         | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 4                         | -        | 4         | 3         | 1         | 1         | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 20                        | -        | 20        | 15        | 5         | 5         | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 1                         | -        | 0         | 0         | 0         | 1         | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 5                         | -        | 0         | 0         | 0         | 5         | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 2         | 1         | 1         | 0        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 1                         | -        | 1         | 2         | 2         | 1         | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 2                         | -        | 1         | 0         | 0         | 0         | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 8         | 8         | 6         | 4         | 0        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>35</b>                 | <b>-</b> | <b>28</b> | <b>23</b> | <b>11</b> | <b>14</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 2         | 2         | 2         | 2         | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 4                         | -        | 4         | 3         | 2         | 2         | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 20                        | -        | 40        | 30        | 20        | 20        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 0                         | -        | 1         | 1         | 1         | 0         | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 0                         | -        | 5         | 5         | 5         | 0         | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 2         | 3         | 2         | 1         | 1        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 3                         | -        | 3         | 3         | 3         | 2         | 1        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 2                         | -        | 2         | 1         | 1         | 0         | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 12                        | -        | 14        | 14        | 12        | 6         | 4        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>32</b>                 | <b>-</b> | <b>59</b> | <b>49</b> | <b>37</b> | <b>26</b> | <b>4</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |           |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7         | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 2         | 3         | 3         | 2         | -        | -        | -        | 0        | -        |
|              | Area involved | B | 4                         | -        | 4         | 3         | 1         | 2         | 1         | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 20                        | -        | 20        | 30        | 15        | 30        | 10        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 0                         | -        | 1         | 1         | 1         | 1         | 0         | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 0                         | -        | 5         | 5         | 5         | 5         | 0         | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 3         | 3         | 3         | 1         | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 2                         | -        | 2         | 3         | 3         | 4         | 2         | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 3                         | -        | 1         | 2         | 2         | 2         | 0         | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 14                        | -        | 10        | 16        | 16        | 18        | 6         | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>34</b>                 | <b>-</b> | <b>35</b> | <b>51</b> | <b>36</b> | <b>53</b> | <b>16</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (23+49+51) / 3 = 41.0**

**\*Furfuryl Alcohol**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 98-00-0  | No. of rabbits       | 1      |
| Purity        | 99 %     |                      |        |
| Product No.   | 18,593-0 |                      |        |

|              |               |   | Observation period (days) |     |                |                |                 |                 |           |   |    |    |          |    |
|--------------|---------------|---|---------------------------|-----|----------------|----------------|-----------------|-----------------|-----------|---|----|----|----------|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1              | 2              | 3               | 4               | 7         | 9 | 10 | 12 | 14       | 21 |
| Cornea       | Opacity       | A | - <sup>a</sup>            | -   | 3              | 2              | 2               | 2               | 2         | - | -  | -  | 0        | -  |
|              | Area involved | B | 4                         | -   | 2              | 3              | 3               | 3               | 3         | - | -  | -  | 0        | -  |
|              | (AxB) x 5     |   |                           | -   | 30             | 30             | 30              | 30              | 30        | - | -  | -  | 0        | -  |
| Iris         |               | C | 1 <sup>b</sup>            | -   | 2 <sup>b</sup> | 1 <sup>b</sup> | 1 <sup>b</sup>  | 1 <sup>b</sup>  | 0         | - | -  | -  | 0        | -  |
|              | C x 5         |   | 5                         | -   | 10             | 5              | 5               | 5               | 0         | - | -  | -  | 0        | -  |
| Conjunctiva  | Redness       | D | 1 <sup>c</sup>            | -   | 1 <sup>c</sup> | 1 <sup>c</sup> | 2 <sup>cd</sup> | 2 <sup>cd</sup> | 1         | - | -  | -  | 0        | -  |
|              | Chemosis      | E | 3                         | -   | 1              | 1              | 1               | 1               | 0         | - | -  | -  | 0        | -  |
|              | Discharge     | F | 3                         | -   | 0              | 0              | 1               | 1               | 0         | - | -  | -  | 0        | -  |
|              | (D+E+F) x 2   |   | 14                        | -   | 4              | 4              | 8               | 8               | 2         | - | -  | -  | 0        | -  |
| <b>Total</b> |               |   |                           | -   | <b>44</b>      | <b>39</b>      | <b>43</b>       | <b>43</b>       | <b>32</b> | - | -  | -  | <b>0</b> | -  |

**MMAS (Modified Maximum Average Score) = 44**<sup>a</sup> Dulling of the cornea<sup>b</sup> Sluggish reaction, or no reaction, to light<sup>c</sup> Blanching of nictating membrane<sup>d</sup> Haemorrhaging of blood vessels of the conjunctivae

**2-Ethyl-1-hexanol**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fisher   | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 104-76-7 | No. of rabbits       | 4      |
| Purity        | 99 %     |                      |        |
| Product No.   | 855535   |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |           |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|-----------|----|----------|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10        | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 3         | 2         | 2         | - | 1         | - | 1         | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 4         | 2         | 2         | - | 1         | - | 1         | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 60        | 20        | 20        | - | 5         | - | 5         | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0         | - | 0         | - | 0         | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0         | - | 0         | - | 0         | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1         | - | 1         | - | 1         | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 1         | - | 1         | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 1         | 1         | 0         | - | 1         | - | 1         | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 10        | 6         | - | 6         | - | 6         | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>75</b> | <b>35</b> | <b>26</b> | - | <b>11</b> | - | <b>11</b> | -  | <b>0</b> | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 3         | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 45        | 30        | 10        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0         | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 12        | 8         | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>60</b> | <b>47</b> | <b>18</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 5         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 5         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 2        | - | 0        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2        | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 10        | 8        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>36</b> | <b>20</b> | <b>8</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

**2-Ethyl-1-hexanol**

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 3         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 15        | 5         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2        | - | 0        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1         | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 6         | 6        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>34</b> | <b>11</b> | <b>6</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(75+60+36+34) / 4 = 51.3$**

**iso-Butanol**

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Source        | Fisher  | Concentration tested | 100 %  |
| Specification |         | Volume tested        | 0.1 ml |
| CAS No.       | 78-83-1 | No. of rabbits       | 4      |
| Purity        | 99.9 %  |                      |        |
| Product No.   | 851962  |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 3         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 20        | 10        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 0         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 0         | 0         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 1         | 1         | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 0         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 6         | 6         | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>56</b> | <b>26</b> | <b>16</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 1         | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 1         | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 40        | 40        | - | 5         | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 1         | 1         | - | 0         | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 5         | 5         | - | 0         | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2         | - | 1         | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 1         | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 0         | - | 1         | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 12        | 8         | - | 6         | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>66</b> | <b>57</b> | <b>53</b> | - | <b>11</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 3         | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 4         | 3         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 30        | 30        | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 10        | 10        | 5         | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 3         | - | 1        | - | 1        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 3         | - | 1        | - | 1        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 16        | 16        | - | 4        | - | 4        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>68</b> | <b>56</b> | <b>51</b> | - | <b>4</b> | - | <b>4</b> | -  | <b>0</b> | -  |



***iso*-Butanol**

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 3         | 2         | 1        | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 2         | 1         | 1        | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 10        | 5        | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0        | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 1        | - | 1        | - | 1        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 1        | - | 1        | - | 1        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 12        | 4        | - | 4        | - | 4        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>51</b> | <b>27</b> | <b>9</b> | - | <b>4</b> | - | <b>4</b> | -  | <b>0</b> | -  |

**MMAS (Modified Maximum Average Score)  $(56+66+68+51) / 4 = 60.3$**

***n*-Butanol**

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Source        | Fisher  | Concentration tested | 100 %  |
| Specification |         | Volume tested        | 0.1 ml |
| CAS No.       | 71-36-3 | No. of rabbits       | 4      |
| Purity        | 99.8 %  |                      |        |
| Product No.   | A-399   |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 3         | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 45        | 30        | 10        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0         | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 3         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 3         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 16        | 6         | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>66</b> | <b>51</b> | <b>16</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 20        | 10        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2        | - | 0        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2        | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 12        | 8        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>39</b> | <b>27</b> | <b>8</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------|----|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 3         | 2         | 2         | - | 2         | - | 0        | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 4         | 4         | 3         | - | 2         | - | 0        | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 60        | 40        | 30        | - | 20        | - | 0        | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0         | - | 0        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0         | - | 0        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 3         | - | 1         | - | 0        | -  | 0        | 0        |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 2         | - | 1        | -  | 1        | 0        |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 0         | - | 1        | -  | 1        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 14        | 14        | - | 8         | - | 4        | -  | 4        | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>79</b> | <b>59</b> | <b>49</b> | - | <b>26</b> | - | <b>4</b> | -  | <b>4</b> | <b>0</b> |

***n*-Butanol**

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 3         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 30        | 10        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 2        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 1         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 10        | 8         | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>59</b> | <b>45</b> | <b>18</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(66+39+79+59) / 4 = 60.8$**

***n*-Hexanol**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Kodak    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 111-27-3 | No. of rabbits       | 4      |
| Purity        | 98 %     |                      |        |
| Product No.   | BIHC     |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 3         | - | 0        | - | 0        | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 4         | 3         | 2         | - | 0        | - | 0        | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 60        | 45        | 30        | - | 0        | - | 0        | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 10        | 10        | 10        | - | 0        | - | 0        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 3         | - | 1        | - | 1        | -  | 0        | 0        |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 3         | - | 1        | - | 1        | -  | 1        | 0        |
|              | Discharge     | F | -                         | -   | 3         | 3         | 2         | - | 0        | - | 0        | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 18        | 16        | - | 4        | - | 4        | -  | 2        | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>88</b> | <b>73</b> | <b>56</b> | - | <b>4</b> | - | <b>4</b> | -  | <b>2</b> | <b>0</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 3         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 30        | 20        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 12        | 12        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>57</b> | <b>47</b> | <b>37</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 3         | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 40        | 30        | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 3         | - | 0        | - | 0        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 3         | - | 2        | - | 1        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 3         | 3         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 18        | 16        | - | 4        | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>63</b> | <b>63</b> | <b>51</b> | - | <b>4</b> | - | <b>2</b> | -  | <b>0</b> | -  |

***n*-Hexanol**

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 3         | 2         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 20        | 5         | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 2         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 10        | 5         | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 2         | - | 2        | - | 2        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 2        | - | 1        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 3         | 3         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 16        | 12        | - | 8        | - | 6        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>51</b> | <b>46</b> | <b>22</b> | - | <b>8</b> | - | <b>6</b> | -  | <b>0</b> | -  |

**MMAS (Modified Maximum Average Score)  $(88+57+63+51) / 4 = 64.8$**

**Butyl Cellosolve<sup>a</sup>**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fisher   | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 111-76-2 | No. of rabbits       | 3      |
| Purity        | 99 %     |                      |        |
| Product No.   | 855414   |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |    |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----|----|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10 | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 2         | - | -  | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 2         | - | -  | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 40        | 40        | 40        | - | 20        | - | -  | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 1         | - | -  | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 5         | - | -  | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 2         | - | -  | -  | 1        | 0        |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 2         | - | -  | -  | 1        | 1        |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 3         | - | -  | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 12        | 12        | - | 14        | - | -  | -  | 4        | 2        |
| <b>Total</b> |               |   | -                         | -   | <b>59</b> | <b>57</b> | <b>57</b> | - | <b>39</b> | - | -  | -  | <b>4</b> | <b>2</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |    |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----|----|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10 | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 3         | - | 2         | - | -  | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 1         | - | -  | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 60        | 60        | 60        | - | 10        | - | -  | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 2         | 2         | 2         | - | 2         | - | -  | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 10        | 10        | 10        | - | 10        | - | -  | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 3         | - | 2         | - | -  | -  | 1        | 1        |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 3         | - | 2         | - | -  | -  | 0        | 0        |
|              | Discharge     | F | -                         | -   | 3         | 3         | 3         | - | 2         | - | -  | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 18        | 18        | - | 12        | - | -  | -  | 2        | 2        |
| <b>Total</b> |               |   | -                         | -   | <b>88</b> | <b>88</b> | <b>88</b> | - | <b>32</b> | - | -  | -  | <b>2</b> | <b>2</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |    |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----|----|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10 | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | -  | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 0        | - | -  | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 40        | 40        | 40        | - | 0        | - | -  | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0        | - | -  | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0        | - | -  | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1        | - | -  | -  | 1        | 1        |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 3         | - | 1        | - | -  | -  | 1        | 0        |
|              | Discharge     | F | -                         | -   | 2         | 3         | 2         | - | 1        | - | -  | -  | 1        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 16        | 14        | - | 6        | - | -  | -  | 6        | 2        |
| <b>Total</b> |               |   | -                         | -   | <b>59</b> | <b>61</b> | <b>59</b> | - | <b>6</b> | - | -  | -  | <b>6</b> | <b>2</b> |

**MMAS (Modified Maximum Average Score) (59+88+59) / 3 or (57+88+61) / 3 = 68.7**

<sup>a</sup> Ethyleneglycol monobutyl ether

**Cyclohexanol**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fisher   | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 108-93-0 | No. of rabbits       | 4      |
| Purity        | 97%      |                      |        |
| Product No.   | 855757   |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |                |   |                |    |                |                |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------------|---|----------------|----|----------------|----------------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7              | 9 | 10             | 12 | 14             | 21             |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 3         | - | 3 <sup>a</sup> | - | 1 <sup>a</sup> | -  | 1 <sup>a</sup> | 1 <sup>a</sup> |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 1              | - | 1              | -  | 1              | 1              |
|              | (AxB) x 5     |   | -                         | -   | 60        | 60        | 60        | - | 15             | - | 5              | -  | 5              | 5              |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0              | - | 0              | -  | 0              | 0              |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0              | - | 0              | -  | 0              | 0              |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1              | - | 0              | -  | 0              | 0              |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 1              | - | 0              | -  | 0              | 0              |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 0              | - | 0              | -  | 0              | 0              |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 12        | 12        | - | 4              | - | 0              | -  | 0              | 0              |
| <b>Total</b> |               |   | -                         | -   | <b>79</b> | <b>77</b> | <b>77</b> | - | <b>19</b>      | - | <b>5</b>       | -  | <b>5</b>       | <b>5</b>       |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 3         | 3         | - | 1        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 1        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 60        | 60        | - | 5        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 14        | 12        | - | 0        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>61</b> | <b>79</b> | <b>77</b> | - | <b>5</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |                |           |           |   |           |   |                |    |          |    |
|--------------|---------------|---|---------------------------|-----|----------------|-----------|-----------|---|-----------|---|----------------|----|----------|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1              | 2         | 3         | 4 | 7         | 9 | 10             | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 3              | 3         | 3         | - | 3         | - | 1 <sup>a</sup> | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 4              | 4         | 4         | - | 2         | - | 1              | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 60             | 60        | 60        | - | 30        | - | 5              | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 2              | 2         | 2         | - | 1         | - | 0              | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 10             | 10        | 10        | - | 5         | - | 0              | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3              | 3         | 3         | - | 2         | - | 1              | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 3              | 3         | 3         | - | 2         | - | 0              | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 3 <sup>b</sup> | 2         | 2         | - | 2         | - | 0              | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 18             | 16        | 16        | - | 12        | - | 2              | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>88</b>      | <b>86</b> | <b>86</b> | - | <b>47</b> | - | <b>7</b>       | -  | <b>0</b> | -  |

**Cyclohexanol**

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 3         | - | 1        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 1        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 60        | 60        | 60        | - | 5        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 12        | 12        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>81</b> | <b>77</b> | <b>77</b> | - | <b>9</b> | - | <b>0</b> | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(77+79+86+77) / 4 = 79.8$**

<sup>a</sup> Pannus

<sup>b</sup> Sanguineous discharge



**4-Carboxybenzaldehyde**

|               |                 |                      |        |
|---------------|-----------------|----------------------|--------|
| Source        | Sigma           | Concentration tested | 100 %  |
| Specification |                 | Volume tested        | 0.1 ml |
| CAS No.       | 619-66-9        | No. of rabbits       | 3      |
| Purity        | > 95 % (by TLC) |                      |        |
| Product No.   | P1904           |                      |        |

|              |               |   | Observation period (days) |          |           |           |           |           |           |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7         | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 2         | 2         | 2         | 1         | -        | -        | 0        | -        | -        |
|              | Area involved | B | 2                         | -        | 3         | 3         | 2         | 2         | 3         | -        | -        | 0        | -        | -        |
|              | (AxB) x 5     |   | 10                        | -        | 15        | 30        | 20        | 20        | 15        | -        | -        | 0        | -        | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | 0         | 0         | -        | -        | 0        | -        | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | 0         | 0         | -        | -        | 0        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 3         | 2         | 1         | -        | -        | 0        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 2         | 1         | 1         | 1         | 0         | -        | -        | 0        | -        | -        |
|              | Discharge     | F | 3                         | -        | 1         | 1         | 1         | 1         | 1         | -        | -        | 0        | -        | -        |
|              | (D+E+F) x 2   |   | 14                        | -        | 12        | 10        | 10        | 8         | 4         | -        | -        | 0        | -        | -        |
| <b>Total</b> |               |   | <b>29</b>                 | <b>-</b> | <b>32</b> | <b>45</b> | <b>35</b> | <b>28</b> | <b>19</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 2         | 2         | 2         | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 4                         | -        | 4         | 2         | 2         | 2         | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 20                        | -        | 20        | 20        | 20        | 20        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 1                         | -        | 1         | 2         | 1         | 1         | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 5                         | -        | 5         | 10        | 5         | 5         | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 3         | 2         | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 1         | 1         | 1         | 1         | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 1         | 1         | 0         | 0         | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 16                        | -        | 10        | 10        | 8         | 6         | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>41</b>                 | <b>-</b> | <b>35</b> | <b>40</b> | <b>33</b> | <b>31</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |           |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7         | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 2         | 2         | 2         | 2         | 1         | -        | -        | 0        | -        | -        |
|              | Area involved | B | 3                         | -        | 4         | 4         | 4         | 3         | 4         | -        | -        | 0        | -        | -        |
|              | (AxB) x 5     |   | 15                        | -        | 40        | 40        | 40        | 30        | 20        | -        | -        | 0        | -        | -        |
| Iris         |               | C | 1                         | -        | 2         | 2         | 2         | 1         | 0         | -        | -        | 0        | -        | -        |
|              | C x 5         |   | 5                         | -        | 10        | 10        | 10        | 5         | 0         | -        | -        | 0        | -        | -        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 3         | 2         | 1         | -        | -        | 0        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 2         | 2         | 1         | 1         | 1         | -        | -        | 0        | -        | -        |
|              | Discharge     | F | 3                         | -        | 3         | 3         | 1         | 0         | 0         | -        | -        | 0        | -        | -        |
|              | (D+E+F) x 2   |   | 16                        | -        | 16        | 16        | 10        | 6         | 4         | -        | -        | 0        | -        | -        |
| <b>Total</b> |               |   | <b>36</b>                 | <b>-</b> | <b>66</b> | <b>66</b> | <b>60</b> | <b>41</b> | <b>24</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (45+40+66) / 3 = 50.3**

**Sodium Hydroxide**

|               |               |                      |        |
|---------------|---------------|----------------------|--------|
| Source        | Fisher        | Concentration tested | 1.0 %  |
| Specification |               | Volume tested        | 0.1 ml |
| CAS No.       | 1310-73-2     | No. of rabbits       | 4      |
| Purity        | Reagent grade |                      |        |

|              |               |   | Observation period (days) |     |                 |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1               | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1               | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1               | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5               | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0               | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0               | 5         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2               | 2         | 2        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3               | 3         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1               | 1         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12 <sup>a</sup> | 12        | 8        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>17</b>       | <b>17</b> | <b>8</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |                 |           |           |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------------|-----------|-----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1               | 2         | 3         | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2               | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 2               | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 20              | 20        | 10        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0               | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0               | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2               | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3               | 3         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3               | 3         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16 <sup>a</sup> | 16        | 10        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>36</b>       | <b>36</b> | <b>20</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |                 |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1               | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1               | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1               | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5               | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0               | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0               | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2               | 2         | 2        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2               | 2         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2               | 3         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12 <sup>a</sup> | 14        | 8        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>17</b>       | <b>14</b> | <b>8</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**Sodium Hydroxide**

|              |               |   | Observation period (days) |     |                |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1              | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2              | 1         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1              | 1         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 10             | 5         | 0         | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1              | 1         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5              | 5         | 0         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3              | 3         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3              | 3         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3 <sup>a</sup> | 2         | 1         | - | 1        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 18             | 16        | 10        | - | 6        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>33</b>      | <b>26</b> | <b>10</b> | - | <b>6</b> | - | <b>0</b> | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(17+36+17+33) / 4 = 25.8$**

<sup>a</sup> Sanguineous discharge

**Sodium Hydroxide**

|               |               |                      |        |
|---------------|---------------|----------------------|--------|
| Source        | Fisher        | Concentration tested | 10.0 % |
| Specification |               | Volume tested        | 0.1 ml |
| CAS No.       | 1310-73-2     | No. of rabbits       | 1      |
| Purity        | Reagent grade |                      |        |

|              |               |   | Observation period (days) |     |                |                |                |   |                |   |                |    |                |                |
|--------------|---------------|---|---------------------------|-----|----------------|----------------|----------------|---|----------------|---|----------------|----|----------------|----------------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1              | 2              | 3              | 4 | 7              | 9 | 10             | 12 | 14             | 21             |
| Cornea       | Opacity       | A | -                         | -   | 4              | 4              | 4              | - | 4              | - | 4              | -  | 4              | 4              |
|              | Area involved | B | -                         | -   | 4              | 4              | 4              | - | 4              | - | 4              | -  | 4              | 4              |
|              | (AxB) x 5     |   | -                         | -   | 80             | 80             | 80             | - | 80             | - | 80             | -  | 80             | 80             |
| Iris         |               | C | -                         | -   | 2 <sup>a</sup> | 2 <sup>a</sup> | 2 <sup>a</sup> | - | 2 <sup>a</sup> | - | 2 <sup>a</sup> | -  | 2 <sup>a</sup> | 2 <sup>a</sup> |
|              | C x 5         |   | -                         | -   | 10             | 10             | 10             | - | 10             | - | 10             | -  | 10             | 10             |
| Conjunctiva  | Redness       | D | -                         | -   | 3 <sup>b</sup> | 3 <sup>b</sup> | 3 <sup>b</sup> | - | 3              | - | 3              | -  | 3              | 3              |
|              | Chemosis      | E | -                         | -   | 3              | 3              | 3              | - | 3              | - | 3              | -  | 3              | 3              |
|              | Discharge     | F | -                         | -   | 3 <sup>c</sup> | 3 <sup>c</sup> | 3 <sup>c</sup> | - | 3              | - | 3              | -  | 3              | 3              |
|              | (D+E+F) x 2   |   | -                         | -   | 18             | 18             | 18             | - | 18             | - | 18             | -  | 18             | 18             |
| <b>Total</b> |               |   | -                         | -   | <b>108</b>     | <b>108</b>     | <b>108</b>     | - | <b>108</b>     | - | <b>108</b>     | -  | <b>108</b>     | <b>108</b>     |

**MMAS (Modified Maximum Average Score) = 108**<sup>a</sup> Maximum score assumed for iris (obscured by opacity)<sup>b</sup> Burns on eyelids<sup>c</sup> Sanguineous discharge

**\*Dichlorotoluenes**

|               |                    |                      |        |
|---------------|--------------------|----------------------|--------|
| Source        | Elf Atochem        | Concentration tested | 100 %  |
| Specification | Mixture of isomers | Volume tested        | 0.1 ml |
| CAS No.       | -                  | No. of rabbits       | 3      |
| Purity        | 99 - 99.8 %        |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (0 + 0 + 0) / 3 = 0**

**4,4-Methylene bis-(2,6-Di-*tert*-butylphenol)**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 118-82-3 | No. of rabbits       | 6      |
| Purity        | 98 %     |                      |        |
| Product No.   | 27,792-4 |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | 1        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | 2        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 2                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>2</b>                  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 2                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>2</b>                  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**4,4-Methylene bis-(2,6-Di-*tert*-butylphenol)**

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 0                         | 1        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 2                         | 2        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>2</b>                  | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | 1        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | 1        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | 1        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | 6        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>6</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 0                         | 1        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 2                         | 2        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>2</b>                  | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (0+0+0+0+0) / 6 = 0**

**4-Bromophenetole**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 589-10-6 | No. of rabbits       | 3      |
| Purity        | 99 %     |                      |        |
| Product No.   | 21,144-3 |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 12                        | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>12</b>                 | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 12                        | -        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>12</b>                 | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(2+2+0) / 3 = 1.3$**



**Xylene [1 x]<sup>a</sup>**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Fisher    | Concentration tested | 100 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 1330-20-7 | No. of rabbits       | 4      |
| Purity        | 99 %      |                      |        |
| Product No.   | X-5       |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 0        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 4        | 4        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>4</b> | <b>4</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**Xylene [1 x]<sup>a</sup>**

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(2+0+2+2) / 4 = 1.5$**

<sup>a</sup> The same sample of the chemical was retested [1 x] in the same laboratory

**3-Chloro-4-fluoronitrobenzene**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 446-35-5 | No. of rabbits       | 6      |
| Purity        | 98 %     |                      |        |
| Product No.   | 23,323,4 |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | 2        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | 1        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | 1        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | 8        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>8</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | 2        | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | 1        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 1                         | 1        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 8                         | 8        | 2        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>8</b>                  | <b>8</b> | <b>2</b> | <b>0</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | 1        | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | 1        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 2                         | 1        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 10                        | 6        | 2        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>10</b>                 | <b>6</b> | <b>2</b> | <b>0</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**3-Chloro-4-fluoronitrobenzene**

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | 2        | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | 1        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 1                         | 1        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 8                         | 8        | 2        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>8</b>                  | <b>8</b> | <b>2</b> | <b>0</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | 1        | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | 1        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 1                         | 1        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 8                         | 6        | 2        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>8</b>                  | <b>6</b> | <b>2</b> | <b>0</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | 2        | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | 1        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 1                         | 1        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 8                         | 8        | 2        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>8</b>                  | <b>8</b> | <b>2</b> | <b>0</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(2+2+2+2+0+2) / 6 = 1.7$**

**1,3-Di-*iso*-propyl Benzene**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 99-62-7  | No. of rabbits       | 6      |
| Purity        | 96 %     |                      |        |
| Product No.   | 11,326-3 |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**1,3-Di-iso-propyl Benzene**

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 2        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(2+2+2+2+2) / 6 = 2$

**1-Methylpropyl Benzene**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 135-98-8 | No. of rabbits       | 6      |
| Purity        | > 99.5 % |                      |        |
| Product No.   | 19620    |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**1-Methylpropyl Benzene**

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(2+2+2+2+2) / 6 = 2$**



**3-Ethyl Toluene**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 620-14-4 | No. of rabbits       | 6      |
| Purity        | 99 %     |                      |        |
| Product No.   | E4,960-6 |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 4        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>4</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**3-Ethyl Toluene**

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(4+2+2+2+2) / 6 = 2.3$**

**2,4-Difluoronitrobenzene**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 446-35-5 | No. of rabbits       | 6      |
| Purity        | 99 %     |                      |        |
| Product No.   | 23,322-6 |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |           |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2         | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0         | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0         | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0         | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0         | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0         | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2        | 2         | 2        | -        | 1        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 1        | 1         | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 2         | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 6        | 10        | 8        | -        | 2        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>6</b> | <b>10</b> | <b>8</b> | <b>-</b> | <b>2</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0         | 0         | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0         | 0         | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0         | 0         | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0         | 0         | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0         | 0         | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2        | 2         | 2         | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 1        | 1         | 2         | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 1        | 2         | 1         | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 8        | 10        | 10        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>8</b> | <b>10</b> | <b>10</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**2,4-Difluoronitrobenzene**

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(2+10+10+2+2+2) / 6 = 4.7$**

**Styrene**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fisher   | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 100-42-5 | No. of rabbits       | 4      |
| Purity        | 99 %     |                      |        |
| Product No.   | 0-4507   |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 4        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>4</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>6</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6        | 2        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>6</b> | <b>2</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**Styrene**

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1         | 1        | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1         | 1        | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6         | 4        | 4        | - | 0        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>11</b> | <b>4</b> | <b>4</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(4+6+6+11) / 4 = 6.8$**

**Toluene**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fisher   | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 108-88-3 | No. of rabbits       | 4      |
| Purity        | 99 %     |                      |        |
| Product No.   | T-324    |                      |        |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 4        | 4        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>10</b> | <b>4</b> | <b>4</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 1         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 10        | 8        | - | 0        | - | -  | -  | -  | -  |
| <i>Total</i> |               |   | -                         | -   | <i>10</i> | <i>10</i> | <i>8</i> | - | <i>0</i> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 1        | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 1        | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6        | 6        | 6        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>6</b> | <b>6</b> | <b>6</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

**Toluene**

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2        | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2        | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0        | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 8        | 6        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>10</b> | <b>8</b> | <b>6</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(10+10+6+10) / 4 = 9$**



**Xylene [2 x]<sup>a</sup>**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Fisher    | Concentration tested | 100 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 1330-20-7 | No. of rabbits       | 4      |
| Purity        | 99 %      |                      |        |
| Product No.   | X-5       |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 1        | - | 1        | - | 0        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 2        | 1        | 1        | - | 1        | - | 1        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 1        | 1        | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8        | 6        | 4        | - | 4        | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>8</b> | <b>6</b> | <b>4</b> | - | <b>4</b> | - | <b>2</b> | -  | <b>0</b> | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1        | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2        | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 6        | 4        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>10</b> | <b>6</b> | <b>4</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1        | 1        | - | 2        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2        | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 6        | 4        | - | 6        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>10</b> | <b>6</b> | <b>4</b> | - | <b>6</b> | - | <b>0</b> | -  | -  | -  |

**Xylene [2 x]<sup>a</sup>**

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2        | 2        | 2        | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8        | 6        | 6        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>8</b> | <b>6</b> | <b>6</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(8+10+10+8) / 4 = 9$**

<sup>a</sup> The same sample of the chemical was retested [2 x] in the same laboratory

**p-Fluoroaniline**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 371-40-4 | No. of rabbits       | 6      |
| Purity        | 99 %     |                      |        |
| Product No.   | F380-0   |                      |        |

|              |               |   | Observation period (days) |           |           |           |           |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----------|-----------|-----------|-----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h       | 1         | 2         | 3         | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 1                         | 2         | 1         | 1         | 2         | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 2                         | 3         | 4         | 4         | 4         | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 10                        | 30        | 20        | 20        | 40        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0         | 0         | 0         | 0         | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0         | 0         | 0         | 0         | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | 2         | 2         | 2         | 3         | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | 3         | 2         | 1         | 2         | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | 1                         | 1         | 1         | 0         | 1         | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 8                         | 12        | 10        | 6         | 12        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>18</b>                 | <b>42</b> | <b>30</b> | <b>26</b> | <b>52</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |           |           |           |           |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----------|-----------|-----------|-----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h       | 1         | 2         | 3         | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 1                         | 1         | 1         | 1         | 2         | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 2                         | 4         | 4         | 4         | 4         | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 10                        | 20        | 20        | 20        | 40        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0         | 0         | 0         | 2         | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0         | 0         | 0         | 10        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | 2         | 3         | 3         | 3         | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | 2         | 2         | 2         | 3         | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | 1                         | 1         | 1         | 2         | 2         | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 10                        | 10        | 12        | 14        | 16        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>20</b>                 | <b>30</b> | <b>32</b> | <b>34</b> | <b>66</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |           |           |           |           |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----------|-----------|-----------|-----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h       | 1         | 2         | 3         | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 1                         | 2         | 2         | 2         | 3         | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 2                         | 4         | 4         | 4         | 4         | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 10                        | 40        | 40        | 40        | 60        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 1         | 1         | 1         | 2         | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 5         | 5         | 5         | 10        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | 2         | 2         | 3         | 3         | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | 3         | 2         | 2         | 3         | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | 1                         | 1         | 2         | 2         | 3         | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 10                        | 12        | 12        | 14        | 18        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>20</b>                 | <b>57</b> | <b>57</b> | <b>59</b> | <b>88</b> | - | - | - | -  | -  | -  | -  |

**p-Fluoroaniline**

|              |               |   | Observation period (days) |           |           |           |           |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----------|-----------|-----------|-----------|---|---|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h       | 1         | 2         | 3         | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 1                         | 2         | 1         | 1         | 2         | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 2                         | 4         | 4         | 4         | 4         | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 10                        | 40        | 20        | 20        | 40        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 1         | 0         | 0         | 1         | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 5         | 0         | 0         | 5         | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | 2         | 3         | 3         | 3         | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | 3         | 2         | 2         | 3         | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | 1                         | 1         | 1         | 2         | 2         | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 8                         | 12        | 12        | 14        | 16        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>18</b>                 | <b>57</b> | <b>32</b> | <b>34</b> | <b>61</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |           |           |           |           |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----------|-----------|-----------|-----------|---|---|---|----|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h       | 1         | 2         | 3         | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 1                         | 1         | 1         | 1         | 3         | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 2                         | 4         | 4         | 4         | 4         | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 10                        | 20        | 20        | 20        | 60        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0         | 0         | 0         | 2         | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0         | 0         | 0         | 10        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | 2         | 2         | 2         | 3         | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | 3         | 2         | 2         | 2         | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | 1                         | 1         | 2         | 2         | 2         | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 8                         | 12        | 12        | 12        | 14        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>18</b>                 | <b>32</b> | <b>32</b> | <b>32</b> | <b>84</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |           |           |           |           |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----------|-----------|-----------|-----------|---|---|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h       | 1         | 2         | 3         | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 1                         | 1         | 1         | 1         | 2         | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 2                         | 4         | 4         | 4         | 4         | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 10                        | 20        | 20        | 20        | 40        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0         | 0         | 0         | 2         | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0         | 0         | 0         | 10        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | 2         | 2         | 3         | 3         | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | 3         | 2         | 2         | 3         | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | 1                         | 1         | 1         | 2         | 3         | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 10                        | 12        | 10        | 14        | 18        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>20</b>                 | <b>32</b> | <b>30</b> | <b>34</b> | <b>68</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (52+66+88+61+84+68) / 6 = 69.8**

NB Test terminated at 3 days

**\*Bromo-2-butane**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 78-76-2  | No. of rabbits       | 3      |
| Purity        | > 99.0 % |                      |        |
| Product No.   | 19690    |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>0</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>0</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>0</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(0 + 0 + 0) / 3 = 0$

**\*1-Bromo-4-chlorobutane**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Fluka     | Concentration tested | 100 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 6940-78-9 | No. of rabbits       | 3      |
| Purity        | 98 %      |                      |        |
| Product No.   | 16662     |                      |        |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (0 + 0 + 0) / 3 = 0**

<sup>a</sup> Evaluation obscured by residual test substance

**\*n-Octyl Bromide**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 111-83-1 | No. of rabbits       | 3      |
| Purity        | > 99.0 % |                      |        |
| Product No.   | 17810    |                      |        |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (0 + 0 + 0) / 3 = 0**

<sup>a</sup> Evaluation obscured by residual test substance

**\*n-Hexyl Bromide**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 111-25-1 | No. of rabbits       | 3      |
| Purity        | > 98.5 % |                      |        |
| Product No.   | 17320    |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>0</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 1        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 0                         | -        | 0        | 2        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>0</b>                  | <b>-</b> | <b>0</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | <sup>a</sup>              | -   | 0        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>0</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(0+2+2) / 3 = 1.3$**

<sup>a</sup> Evaluation obscured by residual test substance



**\*n-Amyl Bromide**

|               |             |                      |        |
|---------------|-------------|----------------------|--------|
| Source        | Elf Atochem | Concentration tested | 100 %  |
| Specification |             | Volume tested        | 0.1 ml |
| CAS No.       | 110-53-2    | No. of rabbits       | 3      |
| Purity        | > 98.5 %    |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 6        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 6        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 6        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | - <sup>a</sup>            | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   |                           | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   |                           | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (2+2+2) / 3 = 2**

<sup>a</sup> Evaluation obscured by residual test substance

**1,6-Dibromohexane**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 629-03-8 | No. of rabbits       | 3      |
| Purity        | 98.4 %   |                      |        |
| Product No.   | 34191    |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(2+2+2) / 3 = 2$**

<sup>a</sup> Evaluation obscured by residual test substance

**\*iso-Propyl Bromide**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 75-26-3  | No. of rabbits       | 3      |
| Purity        | > 99.0 % |                      |        |
| Product No.   | 59370    |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 5                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 3                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 4        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>4</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(2+4+2)/3 = 2.7$**

<sup>a</sup> Evaluation obscured by residual test substance

**\*1,4-Dibromobutane**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 110-52-1 | No. of rabbits       | 3      |
| Purity        | 99.9 %   |                      |        |
| Product No.   | 34050    |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 8        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>8</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 4        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>4</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (0+8+4) / 3 = 4**

<sup>a</sup> Evaluation obscured by residual test substance

**\*1,5-Dibromopentane**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 111-24-0 | No. of rabbits       | 3      |
| Purity        | 99.5 %   |                      |        |
| Product No.   | 34260    |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 2        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 6        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>6</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 4        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>4</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(2+6+4) / 3 = 4$**

<sup>a</sup> Evaluation obscured by residual test substance

**\*1,3-Dibromopropane**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 109-64-8 | No. of rabbits       | 3      |
| Purity        | 98.4 %   |                      |        |
| Product No.   | 34280    |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 4        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>4</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 4        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>4</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 4        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>4</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(4+4+4) / 3 = 4$**

<sup>a</sup> Evaluation obscured by residual test substance

**\*Myristyl Myristate**

|               |                   |                      |                    |
|---------------|-------------------|----------------------|--------------------|
| Source        | DS Industries ApS | Concentration tested | 100 %              |
| Specification |                   | Weight tested        | 87 mg <sup>a</sup> |
| CAS No.       | 3234-85-3         | No. of rabbits       | 3                  |
| Purity        |                   |                      |                    |
| Trade Name    | Estamol MY 14     |                      |                    |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 5                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>9</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 5                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>9</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 5                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>11</b>                 | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(2+2+0) / 3 = 1.3$

<sup>a</sup> 0.1 ml

**\*iso-Propyl iso-Stearate**

|               |                        |                      |        |
|---------------|------------------------|----------------------|--------|
| Source        | Unichema International | Concentration tested | 100 %  |
| Specification |                        | Volume tested        | 0.1 ml |
| CAS No.       | 68171-33-5             | No. of rabbits       | 3      |
| Purity        | -                      |                      |        |
| Trade Name    | Estol 2021             |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (2+2+0) / 3 = 1.3**



**\*Ethyleneglycol Diethyl Ether**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 629-14-1 | No. of rabbits       | 3      |
| Purity        | 98 %     |                      |        |
| Product No.   | 22,411-1 |                      |        |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   |               |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | - <sup>a</sup>            | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Area involved | B | 2                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   |                           | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Discharge     | F | 2                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 8                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   |               |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Discharge     | F | 2                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 10                        | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | 10                        | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   |               |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | - <sup>a</sup>            | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Area involved | B | 1                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   |                           | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | Discharge     | F | 3                         | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 14                        | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | 0 | 0 | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (0 + 0 + 0) / 3 = 0**

<sup>a</sup> Dulling of the cornea

**\**iso*-Stearic Acid**

|               |                        |                      |        |
|---------------|------------------------|----------------------|--------|
| Source        | Unichema International | Concentration tested | 100 %  |
| Specification |                        | Volume tested        | 0.1 ml |
| CAS No.       | 30399-84-9             | No. of rabbits       | 3      |
| Purity        | -                      |                      |        |
| Trade Name    | Prisorine 3505         |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 2        | 2        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 6        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>6</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(2+6+2) / 3 = 3.3$**

**\*Lauric Acid**

|               |                        |                      |                    |
|---------------|------------------------|----------------------|--------------------|
| Source        | Unichema International | Concentration tested | 100 %              |
| Specification |                        | Weight tested        | 52 mg <sup>a</sup> |
| CAS No.       | 143-07-7               | No. of rabbits       | 3                  |
| Purity        | > 92 %                 |                      |                    |
| Trade Name    | Prifrac 2020           |                      |                    |

|              |               |   | Observation period (days) |          |           |           |           |          |           |          |          |          |           |           |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|-----------|-----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7         | 9        | 10       | 12       | 14        | 21        |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 1         | 1         | -        | 2         | -        | -        | -        | 2         | 1         |
|              | Area involved | B | 4                         | -        | 1         | 3         | 4         | -        | 4         | -        | -        | -        | 3         | 4         |
|              | (AxB) x 5     |   | 20                        | -        | 5         | 15        | 20        | -        | 40        | -        | -        | -        | 30        | 20        |
| Iris         |               | C | 1                         | -        | 1         | 0         | 1         | -        | 0         | -        | -        | -        | 0         | 0         |
|              | C x 5         |   | 5                         | -        | 5         | 0         | 5         | -        | 0         | -        | -        | -        | 0         | 0         |
| Conjunctiva  | Redness       | D | 0                         | -        | 3         | 3         | 3         | -        | 3         | -        | -        | -        | 1         | 1         |
|              | Chemosis      | E | 3                         | -        | 2         | 1         | 2         | -        | 1         | -        | -        | -        | 0         | 0         |
|              | Discharge     | F | 0                         | -        | 1         | 2         | 3         | -        | 1         | -        | -        | -        | 1         | 0         |
|              | (D+E+F) x 2   |   | 6                         | -        | 12        | 12        | 16        | -        | 10        | -        | -        | -        | 4         | 2         |
| <b>Total</b> |               |   | <b>31</b>                 | <b>-</b> | <b>22</b> | <b>27</b> | <b>41</b> | <b>-</b> | <b>50</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>34</b> | <b>22</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |           |          |          |          |           |           |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|-----------|-----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7         | 9        | 10       | 12       | 14        | 21        |
| Cornea       | Opacity       | A | 2                         | -        | 1         | 1         | 1         | -        | 2         | -        | -        | -        | 2         | 2         |
|              | Area involved | B | 4                         | -        | 4         | 2         | 4         | -        | 4         | -        | -        | -        | 3         | 1         |
|              | (AxB) x 5     |   | 40                        | -        | 20        | 10        | 20        | -        | 40        | -        | -        | -        | 30        | 10        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | -        | 0         | -        | -        | -        | 0         | 0         |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | -        | 0         | -        | -        | -        | 0         | 0         |
| Conjunctiva  | Redness       | D | 0                         | -        | 3         | 3         | 2         | -        | 2         | -        | -        | -        | 1         | 1         |
|              | Chemosis      | E | 3                         | -        | 2         | 1         | 2         | -        | 1         | -        | -        | -        | 0         | 0         |
|              | Discharge     | F | 0                         | -        | 1         | 2         | 3         | -        | 0         | -        | -        | -        | 0         | 0         |
|              | (D+E+F) x 2   |   | 6                         | -        | 12        | 12        | 14        | -        | 6         | -        | -        | -        | 2         | 2         |
| <b>Total</b> |               |   | <b>51</b>                 | <b>-</b> | <b>37</b> | <b>27</b> | <b>39</b> | <b>-</b> | <b>46</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>32</b> | <b>12</b> |

|              |               |   | Observation period (days) |          |           |                |           |          |           |          |          |          |           |           |
|--------------|---------------|---|---------------------------|----------|-----------|----------------|-----------|----------|-----------|----------|----------|----------|-----------|-----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2              | 3         | 4        | 7         | 9        | 10       | 12       | 14        | 21        |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 0 <sup>b</sup> | 1         | -        | 2         | -        | -        | -        | 2         | 2         |
|              | Area involved | B | 4                         | -        | 1         | 2              | 2         | -        | 1         | -        | -        | -        | 1         | 1         |
|              | (AxB) x 5     |   | 20                        | -        | 5         | 0              | 10        | -        | 10        | -        | -        | -        | 10        | 10        |
| Iris         |               | C | 1                         | -        | 1         | 0              | 1         | -        | 0         | -        | -        | -        | 0         | 0         |
|              | C x 5         |   | 5                         | -        | 5         | 0              | 5         | -        | 0         | -        | -        | -        | 0         | 0         |
| Conjunctiva  | Redness       | D | 0                         | -        | 3         | 3              | 3         | -        | 3         | -        | -        | -        | 2         | 1         |
|              | Chemosis      | E | 3                         | -        | 1         | 1              | 2         | -        | 1         | -        | -        | -        | 1         | 0         |
|              | Discharge     | F | 0                         | -        | 1         | 2              | 3         | -        | 0         | -        | -        | -        | 0         | 0         |
|              | (D+E+F) x 2   |   | 6                         | -        | 10        | 12             | 16        | -        | 8         | -        | -        | -        | 6         | 2         |
| <b>Total</b> |               |   | <b>31</b>                 | <b>-</b> | <b>20</b> | <b>12</b>      | <b>31</b> | <b>-</b> | <b>18</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>16</b> | <b>12</b> |

**MMAS (Modified Maximum Average Score) (50+46+18) / 3 = 38.0**

<sup>a</sup> 0.1 ml; <sup>b</sup> Very slight opacity, assumed score 0

**\*Tetra-aminopyrimidine Sulphate**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Aldrich   | Concentration tested | 100 %  |
| Specification |           | Weight tested        | 100 mg |
| CAS No.       | 5392-28-9 | No. of rabbits       | 3      |
| Purity        | 97 %      |                      |        |
| Product No.   | T380-7    |                      |        |

|              |               |   | Observation period (days) |          |           |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 2         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 1                         | -        | 1         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 5                         | -        | 10        | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 0                         | -        | 0         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 0                         | -        | 0         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 1        | 1        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 2                         | -        | 1         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 1                         | -        | 0         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 6         | 2        | 2        | 0        | 0        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>15</b>                 | <b>-</b> | <b>16</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 1                         | -        | 1         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 5                         | -        | 5         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 0                         | -        | 0         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 0                         | -        | 0         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 1        | 1        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 2                         | -        | 1         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 1                         | -        | 0         | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 6         | 2        | 2        | 0        | 0        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>15</b>                 | <b>-</b> | <b>11</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 5                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 1        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 2                         | -        | 1        | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 4        | 2        | 2        | 0        | 0        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>13</b>                 | <b>-</b> | <b>4</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(16+11+4) / 3 = 10.3$**

**\*Pyridine**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 110-86-1 | No. of rabbits       | 3      |
| Purity        | 99.9 + % |                      |        |
| Product No.   | 27,040-7 |                      |        |

|              |               |   | Observation period (days) |          |           |           |           |           |           |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7         | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 2         | 2         | 2         | 2         | 2         | -        | -        | -        | 1        | -        |
|              | Area involved | B | 2                         | -        | 4         | 3         | 3         | 3         | 3         | -        | -        | -        | 1        | -        |
|              | (AxB) x 5     |   | 20                        | -        | 40        | 30        | 30        | 30        | 30        | -        | -        | -        | 5        | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | 1         | 1         | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | 5         | 5         | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 3         | 3         | 3         | 3         | -        | -        | -        | 1        | -        |
|              | Chemosis      | E | 4                         | -        | 3         | 3         | 4         | 3         | 2         | -        | -        | -        | 1        | -        |
|              | Discharge     | F | 2                         | -        | 1         | 2         | 1         | 0         | 0         | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 16                        | -        | 12        | 16        | 16        | 12        | 10        | -        | -        | -        | 4        | -        |
| <b>Total</b> |               |   | <b>41</b>                 | <b>-</b> | <b>57</b> | <b>51</b> | <b>51</b> | <b>47</b> | <b>45</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>9</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |           |          |          |          |                |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7         | 9        | 10       | 12       | 14             | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 3         | 3         | 3         | 3         | 3         | -        | -        | -        | 4              | -        |
|              | Area involved | B | 3                         | -        | 1         | 1         | 1         | 1         | 1         | -        | -        | -        | 3              | -        |
|              | (AxB) x 5     |   | 30                        | -        | 15        | 15        | 15        | 15        | 15        | -        | -        | -        | 60             | -        |
| Iris         |               | C | 1                         | -        | 1         | 2         | 2         | 2         | 2         | -        | -        | -        | 2 <sup>a</sup> | -        |
|              | C x 5         |   | 5                         | -        | 5         | 10        | 10        | 10        | 10        | -        | -        | -        | 10             | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 3         | 3         | 3         | -        | -        | -        | 3              | -        |
|              | Chemosis      | E | 4                         | -        | 4         | 3         | 4         | 3         | 3         | -        | -        | -        | 3              | -        |
|              | Discharge     | F | 2                         | -        | 2         | 2         | 1         | 2         | 2         | -        | -        | -        | 2              | -        |
|              | (D+E+F) x 2   |   | 16                        | -        | 18        | 16        | 16        | 16        | 16        | -        | -        | -        | 16             | -        |
| <b>Total</b> |               |   | <b>51</b>                 | <b>-</b> | <b>38</b> | <b>41</b> | <b>41</b> | <b>41</b> | <b>41</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>86</b>      | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |           |          |          |          |           |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7         | 9        | 10       | 12       | 14        | 21       |
| Cornea       | Opacity       | A | 3                         | -        | 3         | 3         | 3         | 3         | 2         | -        | -        | -        | 2         | -        |
|              | Area involved | B | 2                         | -        | 2         | 1         | 1         | 1         | 1         | -        | -        | -        | 1         | -        |
|              | (AxB) x 5     |   | 30                        | -        | 30        | 15        | 15        | 15        | 10        | -        | -        | -        | 10        | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | 1         | 0         | -        | -        | -        | 0         | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | 5         | 0         | -        | -        | -        | 0         | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 3         | 3         | 1         | -        | -        | -        | 0         | -        |
|              | Chemosis      | E | 4                         | -        | 3         | 3         | 3         | 2         | 1         | -        | -        | -        | 0         | -        |
|              | Discharge     | F | 2                         | -        | 1         | 2         | 0         | 2         | 1         | -        | -        | -        | 0         | -        |
|              | (D+E+F) x 2   |   | 16                        | -        | 14        | 16        | 12        | 14        | 6         | -        | -        | -        | 0         | -        |
| <b>Total</b> |               |   | <b>51</b>                 | <b>-</b> | <b>49</b> | <b>36</b> | <b>32</b> | <b>34</b> | <b>16</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>10</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (57+38+49) / 3 = 48.0**

<sup>a</sup> Maximum score assumed for iris (obscured by opacity)

**\*Imidazole**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Weight tested        | 100 mg |
| CAS No.       | 288-32-4 | No. of rabbits       | 3      |
| Purity        | 99 %     |                      |        |
| Product No.   | I-20-2   |                      |        |

|              |               |   | Observation period (days) |          |           |           |           |           |           |          |          |          |           |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7         | 9        | 10       | 12       | 14        | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 3         | 4         | 4         | 4         | 3         | -        | -        | -        | 2         | -        |
|              | Area involved | B | 3                         | -        | 1         | 1         | 1         | 1         | 2         | -        | -        | -        | 2         | -        |
|              | (AxB) x 5     |   | 30                        | -        | 15        | 20        | 20        | 20        | 30        | -        | -        | -        | 20        | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 2         | 1         | 2         | -        | -        | -        | 0         | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 10        | 5         | 10        | -        | -        | -        | 0         | -        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 3         | 3         | 3         | -        | -        | -        | 1         | -        |
|              | Chemosis      | E | 3                         | -        | 4         | 4         | 4         | 4         | 2         | -        | -        | -        | 1         | -        |
|              | Discharge     | F | 2                         | -        | 2         | 3         | 3         | 2         | 1         | -        | -        | -        | 2         | -        |
|              | (D+E+F) x 2   |   | 16                        | -        | 18        | 20        | 20        | 18        | 12        | -        | -        | -        | 8         | -        |
| <b>Total</b> |               |   | <b>51</b>                 | <b>-</b> | <b>38</b> | <b>45</b> | <b>50</b> | <b>43</b> | <b>52</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>28</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |           |          |          |          |                |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7         | 9        | 10       | 12       | 14             | 21       |
| Cornea       | Opacity       | A | 3                         | -        | 3         | 3         | 3         | 3         | 3         | -        | -        | -        | 3              | -        |
|              | Area involved | B | 2                         | -        | 2         | 2         | 2         | 2         | 3         | -        | -        | -        | 3              | -        |
|              | (AxB) x 5     |   | 30                        | -        | 30        | 30        | 30        | 30        | 45        | -        | -        | -        | 45             | -        |
| Iris         |               | C | 1                         | -        | 1         | 2         | 2         | 1         | 2         | -        | -        | -        | 2 <sup>a</sup> | -        |
|              | C x 5         |   | 5                         | -        | 5         | 10        | 10        | 5         | 10        | -        | -        | -        | 10             | -        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 3         | 3         | 3         | -        | -        | -        | 2              | -        |
|              | Chemosis      | E | 3                         | -        | 4         | 4         | 4         | 4         | 3         | -        | -        | -        | 3              | -        |
|              | Discharge     | F | 2                         | -        | 2         | 3         | 3         | 2         | 3         | -        | -        | -        | 2              | -        |
|              | (D+E+F) x 2   |   | 16                        | -        | 18        | 20        | 20        | 18        | 18        | -        | -        | -        | 14             | -        |
| <b>Total</b> |               |   | <b>51</b>                 | <b>-</b> | <b>53</b> | <b>60</b> | <b>60</b> | <b>53</b> | <b>73</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>69</b>      | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |           |          |          |          |           |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7         | 9        | 10       | 12       | 14        | 21       |
| Cornea       | Opacity       | A | 3                         | -        | 3         | 4         | 4         | 3         | 3         | -        | -        | -        | 3         | -        |
|              | Area involved | B | 3                         | -        | 2         | 2         | 2         | 2         | 2         | -        | -        | -        | 2         | -        |
|              | (AxB) x 5     |   | 45                        | -        | 30        | 40        | 40        | 30        | 30        | -        | -        | -        | 30        | -        |
| Iris         |               | C | 1                         | -        | 1         | 2         | 2         | 2         | 1         | -        | -        | -        | 0         | -        |
|              | C x 5         |   | 5                         | -        | 5         | 10        | 10        | 10        | 5         | -        | -        | -        | 0         | -        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 3         | 3         | 2         | -        | -        | -        | 0         | -        |
|              | Chemosis      | E | 3                         | -        | 4         | 4         | 3         | 3         | 2         | -        | -        | -        | 1         | -        |
|              | Discharge     | F | 2                         | -        | 2         | 3         | 3         | 2         | 1         | -        | -        | -        | 0         | -        |
|              | (D+E+F) x 2   |   | 16                        | -        | 18        | 20        | 18        | 16        | 10        | -        | -        | -        | 2         | -        |
| <b>Total</b> |               |   | <b>66</b>                 | <b>-</b> | <b>53</b> | <b>70</b> | <b>68</b> | <b>56</b> | <b>45</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>32</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (50+60+68) / 3 = 59.3**

<sup>a</sup> Maximum score assumed for iris (obscured by opacity)

**\*3,3-Dimethylpentane**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 562-49-2 | No. of rabbits       | 3      |
| Purity        | 99 %     |                      |        |
| Product No.   | 11,845-1 |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(0 + 0 + 0) / 3 = 0$

**3-Methylhexane**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 589-34-4 | No. of rabbits       | 6      |
| Purity        | 99 %     |                      |        |
| Product No.   | M4,980-1 |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |



**3-Methylhexane**

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(0+0+0+2+0+2) / 6 = 0.7$**

**2-Methylpentane**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 107-83-5 | No. of rabbits       | 6      |
| Purity        | > 99.5 % |                      |        |
| Product No.   | 68310    |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 4        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>4</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**2-Methylpentane**

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(4+2+2+2+0+2) / 6 = 2$**

**1,9-Decadiene**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Aldrich   | Concentration tested | 100 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 1647-16-1 | No. of rabbits       | 6      |
| Purity        | 98 %      |                      |        |
| Product No.   | 11,830-3  |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | 1        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | 2        | 2        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>2</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | 1        | 1        | 1        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 1                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 6                         | 2        | 2        | 2        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>6</b>                  | <b>2</b> | <b>2</b> | <b>2</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | 1        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | 2        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>2</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**1,9-Decadiene**

|              |               |   | Observation period (days) |          |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | 1        | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | 1                         | 0        | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 4                         | 2        | 2        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>4</b>                  | <b>2</b> | <b>2</b> | <b>0</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | 1        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | 2        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>2</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | 1        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | 0        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | 2        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>2</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(2+2+2+2+2) / 6 = 2$**

**Dodecane**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 112-40-3 | No. of rabbits       | 6      |
| Purity        | > 99.5 % |                      |        |
| Product No.   | 44010    |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**Dodecane**

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 4        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>4</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(2+0+2+4+2+2) / 6 = 2$**

**1,5-Dimethyl Cyclo-octadiene**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Aldrich   | Concentration tested | 100 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 3760-14-3 | No. of rabbits       | 6      |
| Purity        | 96 %      |                      |        |
| Product No.   | 29,144-7  |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 5        | 5        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 2        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>7</b> | <b>7</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |



**1,5-Dimethyl Cyclo-octadiene**

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 1        | -        | 1        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 2        | 2        | 4        | -        | 2        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>4</b> | <b>-</b> | <b>2</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(2+2+7+2+2+2) / 6 = 2.8$

**cis-Cyclo-octene**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 931-88-4 | No. of rabbits       | 6      |
| Purity        | 95 %     |                      |        |
| Product No.   | 26950    |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 4        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>4</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 4        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>4</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**cis-Cyclo-octene**

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 4        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>4</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 4        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>4</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(2+4+4+4+2+4) / 6 = 3.3$

## Methyl Cyclopentane

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Source        | Fluka   | Concentration tested | 100 %  |
| Specification |         | Volume tested        | 0.1 ml |
| CAS No.       | 96-37-7 | No. of rabbits       | 6      |
| Purity        | > 99 %  |                      |        |
| Product No.   | 66495   |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 4        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>4</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**Methyl Cyclopentane**

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 4        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>4</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2        | 2        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 8        | 8        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>8</b> | <b>8</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 2        | 2        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(2+4+2+4+8+2) / 6 = 3.7$**

**1,5-Hexadiene**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 592-42-7 | No. of rabbits       | 6      |
| Purity        | 97 %     |                      |        |
| Product No.   | 52440    |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 6        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>-</b> | <b>6</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 4        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>-</b> | <b>4</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**1,5-Hexadiene**

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 6        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>-</b> | <b>6</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2        | 1        | 1        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 8        | 2        | 2        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>-</b> | <b>8</b> | <b>2</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 2        | 0        | 0        | -        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>12</b>                 | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(6+2+4+6+8+2) / 6 = 4.7$**

**\*Potassium Tetrafluoroborate**

|               |            |                      |        |
|---------------|------------|----------------------|--------|
| Source        | Aldrich    | Concentration tested | 100 %  |
| Specification |            | Weight tested        | 100 mg |
| CAS No.       | 14075-53-7 | No. of rabbits       | 3      |
| Purity        | > 99 %     |                      |        |
| Product No.   | 07710 MW   |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>0</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>0</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>0</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(0 + 0 + 0) / 3 = 0$**



**Ammonium Nitrate**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Aldrich   | Concentration tested | 100 %  |
| Specification |           | Weight tested        | 100 mg |
| CAS No.       | 6484-52-2 | No. of rabbits       | 3      |
| Purity        | 99.999 %  |                      |        |
| Product No.   | 25,606-4  |                      |        |

|              |               |   | Observation period (days) |          |           |           |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        |
|              | Area involved | B | 2                         | -        | 1         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        |
|              | (AxB) x 5     |   | 10                        | -        | 5         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        |
| Iris         |               | C | 1                         | -        | 1         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        |
|              | C x 5         |   | 5                         | -        | 5         | 0         | 0        | 0        | 0        | -        | 0        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 3        | 2        | 1        | -        | 0        | -        | -        | -        |
|              | Chemosis      | E | 3                         | -        | 2         | 1         | 1        | 1        | 0        | -        | 0        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 2         | 1         | 0        | 0        | 0        | -        | 0        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 18                        | -        | 14        | 10        | 8        | 6        | 2        | -        | 0        | -        | -        | -        |
| <b>Total</b> |               |   | <b>33</b>                 | <b>-</b> | <b>24</b> | <b>10</b> | <b>8</b> | <b>6</b> | <b>2</b> | <b>-</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 1         | 0         | 0         | 0         | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 1         | 0         | 0         | 0         | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 5         | 0         | 0         | 0         | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 1                         | -        | 0         | 0         | 0         | 0         | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 5                         | -        | 0         | 0         | 0         | 0         | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 3         | 3         | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 3                         | -        | 2         | 1         | 1         | 1         | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 2         | 2         | 1         | 1         | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 18                        | -        | 14        | 12        | 10        | 10        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>23</b>                 | <b>-</b> | <b>19</b> | <b>12</b> | <b>10</b> | <b>10</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 1                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 5                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 3         | 2        | 1        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 2         | 1         | 1        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 2         | 1         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 14                        | -        | 12        | 10        | 6        | 2        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>19</b>                 | <b>-</b> | <b>12</b> | <b>10</b> | <b>6</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (24+19+12) = 18.3**

**Sodium Perborate Tetrahydrate**

|               |            |                      |       |
|---------------|------------|----------------------|-------|
| Source        | Dupont     | Concentration tested | 100 % |
| Specification |            | Weight tested        | 60 mg |
| CAS No.       | 10486-00-7 | No. of rabbits       | 6     |
| Purity        | 98.6 %     |                      |       |
| Product No.   | 004666     |                      |       |

|              |               |   | Observation period (days) |          |           |           |           |          |           |          |          |          |           |           |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|-----------|-----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7         | 9        | 10       | 12       | 14        | 21        |
| Cornea       | Opacity       | A | 2                         | -        | 2         | 2         | 3         | -        | 3         | -        | -        | -        | 4         | 4         |
|              | Area involved | B | 3                         | -        | 1         | 2         | 1         | -        | 1         | -        | -        | -        | 1         | 1         |
|              | (AxB) x 5     |   | 30                        | -        | 10        | 20        | 15        | -        | 15        | -        | -        | -        | 20        | 20        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | -        | 0         | -        | -        | -        | 0         | 0         |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | -        | 0         | -        | -        | -        | 0         | 0         |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 3         | -        | 3         | -        | -        | -        | 2         | 1         |
|              | Chemosis      | E | 3                         | -        | 3         | 2         | 2         | -        | 1         | -        | -        | -        | 0         | 0         |
|              | Discharge     | F | 2                         | -        | 2         | 2         | 2         | -        | 0         | -        | -        | -        | 0         | 0         |
|              | (D+E+F) x 2   |   | 16                        | -        | 16        | 14        | 14        | -        | 8         | -        | -        | -        | 4         | 2         |
| <b>Total</b> |               |   | <b>51</b>                 | <b>-</b> | <b>31</b> | <b>39</b> | <b>34</b> | <b>-</b> | <b>23</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>24</b> | <b>22</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 2         | 2         | 2         | -        | 1        | -        | -        | -        | 0        | 0        |
|              | Area involved | B | 1                         | -        | 1         | 1         | 1         | -        | 1        | -        | -        | -        | 0        | 0        |
|              | (AxB) x 5     |   | 10                        | -        | 10        | 10        | 10        | -        | 5        | -        | -        | -        | 0        | 0        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | -        | 0        | -        | -        | -        | 0        | 0        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 3         | -        | 2        | -        | -        | -        | 2        | 0        |
|              | Chemosis      | E | 3                         | -        | 3         | 2         | 2         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | Discharge     | F | 2                         | -        | 2         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (D+E+F) x 2   |   | 16                        | -        | 16        | 12        | 12        | -        | 4        | -        | -        | -        | 4        | 0        |
| <b>Total</b> |               |   | <b>31</b>                 | <b>-</b> | <b>31</b> | <b>27</b> | <b>27</b> | <b>-</b> | <b>9</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>4</b> | <b>0</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |           |          |          |          |           |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|-----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7         | 9        | 10       | 12       | 14        | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 2         | 2         | 2         | -        | 2         | -        | -        | -        | 1         | 1        |
|              | Area involved | B | 1                         | -        | 1         | 3         | 2         | -        | 2         | -        | -        | -        | 2         | 1        |
|              | (AxB) x 5     |   | 10                        | -        | 10        | 30        | 20        | -        | 20        | -        | -        | -        | 10        | 5        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | -        | 1         | -        | -        | -        | 0         | 0        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | -        | 5         | -        | -        | -        | 0         | 0        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 3         | -        | 3         | -        | -        | -        | 2         | 0        |
|              | Chemosis      | E | 3                         | -        | 3         | 3         | 2         | -        | 1         | -        | -        | -        | 0         | 0        |
|              | Discharge     | F | 2                         | -        | 1         | 1         | 1         | -        | 0         | -        | -        | -        | 0         | 0        |
|              | (D+E+F) x 2   |   | 16                        | -        | 14        | 14        | 12        | -        | 8         | -        | -        | -        | 4         | 0        |
| <b>Total</b> |               |   | <b>31</b>                 | <b>-</b> | <b>29</b> | <b>49</b> | <b>37</b> | <b>-</b> | <b>33</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>14</b> | <b>5</b> |

**Sodium Perborate Tetrahydrate**

|              |               |   | Observation period (days) |          |           |           |           |          |           |          |          |          |           |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|-----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7         | 9        | 10       | 12       | 14        | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 1         | 2         | 2         | -        | 2         | -        | -        | -        | 2         | 1        |
|              | Area involved | B | 1                         | -        | 1         | 1         | 1         | -        | 1         | -        | -        | -        | 1         | 1        |
|              | (AxB) x 5     |   | 10                        | -        | 5         | 10        | 10        | -        | 10        | -        | -        | -        | 10        | 5        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | -        | 0         | -        | -        | -        | 0         | 0        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | -        | 0         | -        | -        | -        | 0         | 0        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 3         | -        | 3         | -        | -        | -        | 2         | 1        |
|              | Chemosis      | E | 3                         | -        | 2         | 2         | 2         | -        | 1         | -        | -        | -        | 0         | 0        |
|              | Discharge     | F | 2                         | -        | 2         | 2         | 2         | -        | 0         | -        | -        | -        | 0         | 0        |
|              | (D+E+F) x 2   |   | 16                        | -        | 14        | 14        | 14        | -        | 8         | -        | -        | -        | 4         | 2        |
| <b>Total</b> |               |   | <b>31</b>                 | <b>-</b> | <b>24</b> | <b>29</b> | <b>29</b> | <b>-</b> | <b>18</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>14</b> | <b>7</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |           |          |          |          |           |           |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|-----------|-----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7         | 9        | 10       | 12       | 14        | 21        |
| Cornea       | Opacity       | A | 2                         | -        | 2         | 2         | 2         | -        | 2         | -        | -        | -        | 3         | 4         |
|              | Area involved | B | 1                         | -        | 1         | 1         | 1         | -        | 1         | -        | -        | -        | 1         | 1         |
|              | (AxB) x 5     |   | 10                        | -        | 10        | 10        | 10        | -        | 10        | -        | -        | -        | 15        | 20        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 0         | -        | 0         | -        | -        | -        | 0         | 0         |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 0         | -        | 0         | -        | -        | -        | 0         | 0         |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 3         | -        | 3         | -        | -        | -        | 2         | 0         |
|              | Chemosis      | E | 3                         | -        | 3         | 3         | 2         | -        | 1         | -        | -        | -        | 0         | 0         |
|              | Discharge     | F | 2                         | -        | 3         | 2         | 1         | -        | 0         | -        | -        | -        | 0         | 0         |
|              | (D+E+F) x 2   |   | 16                        | -        | 18        | 16        | 12        | -        | 8         | -        | -        | -        | 4         | 0         |
| <b>Total</b> |               |   | <b>31</b>                 | <b>-</b> | <b>33</b> | <b>31</b> | <b>22</b> | <b>-</b> | <b>18</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>19</b> | <b>20</b> |

|              |               |   | Observation period (days) |          |           |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1         | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 0         | 0        | 0        | -        | 0        | -        | -        | -        | 0        | 0        |
|              | Area involved | B | 2                         | -        | 0         | 0        | 0        | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (AxB) x 5     |   | 10                        | -        | 0         | 0        | 0        | -        | 0        | -        | -        | -        | 0        | 0        |
| Iris         |               | C | 1                         | -        | 0         | 0        | 0        | -        | 0        | -        | -        | -        | 0        | 0        |
|              | C x 5         |   | 5                         | -        | 0         | 0        | 0        | -        | 0        | -        | -        | -        | 0        | 0        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3        | 3        | -        | 2        | -        | -        | -        | 0        | 0        |
|              | Chemosis      | E | 3                         | -        | 2         | 1        | 1        | -        | 0        | -        | -        | -        | 0        | 0        |
|              | Discharge     | F | 2                         | -        | 1         | 0        | 0        | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (D+E+F) x 2   |   | 16                        | -        | 12        | 8        | 8        | -        | 4        | -        | -        | -        | 0        | 0        |
| <b>Total</b> |               |   | <b>31</b>                 | <b>-</b> | <b>12</b> | <b>8</b> | <b>8</b> | <b>-</b> | <b>4</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>0</b> |

**MMAS (Modified Maximum Average Score)  $(39+27+49+29+31+8) / 6 = 30.5$**

**\*Potassium Cyanate**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Degussa  | Concentration tested | 100 %  |
| Specification |          | Weight tested        | 100 mg |
| CAS No.       | 590-28-3 | No. of rabbits       | 3      |
| Purity        | 97 %     |                      |        |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0         | 0         | 0         | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0         | 0         | 0         | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0         | 0         | 0         | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 1         | 1         | 1         | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 5         | 5         | 5         | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 3         | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 3         | 3         | 2         | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 3         | 3         | 3         | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 18        | 18        | 16        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>23</b> | <b>23</b> | <b>21</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 0         | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 4                         | -        | 4         | 0         | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 20                        | -        | 20        | 0         | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 3        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 2         | 1         | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 1         | 1         | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 12        | 10        | 6        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>28</b>                 | <b>-</b> | <b>32</b> | <b>10</b> | <b>6</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 1         | 0         | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 4                         | -        | 4         | 4         | 0         | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 20                        | -        | 20        | 20        | 0         | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 0         | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 0         | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 3         | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 2         | 2         | 2         | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 2         | 1         | 1         | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 14        | 12        | 12        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>35</b>                 | <b>-</b> | <b>39</b> | <b>37</b> | <b>12</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (23+32+39) = 31.3**

**\*Sodium Oxalate**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Weight tested        | 100 mg |
| CAS No.       | 62-76-0  | No. of rabbits       | 3      |
| Purity        | > 99 %   |                      |        |
| Product No.   | 22,343-3 |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |           |           |   |    |    |                |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|-----------|-----------|---|----|----|----------------|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4         | 7         | 9 | 10 | 12 | 14             | 21 |
| Cornea       | Opacity       | A | - <sup>a</sup>            | -   | 2         | 3         | 3         | 3         | 4         | - | -  | -  | 4              | -  |
|              | Area involved | B | - <sup>a</sup>            | -   | 3         | 2         | 2         | 3         | 3         | - | -  | -  | 3              | -  |
|              | (AxB) x 5     |   | - <sup>a</sup>            | -   | 30        | 30        | 30        | 45        | 60        | - | -  | -  | 60             | -  |
| Iris         |               | C | - <sup>a</sup>            | -   | 1         | 2         | 2         | 1         | 1         | - | -  | -  | 2 <sup>b</sup> | -  |
|              | C x 5         |   | - <sup>a</sup>            | -   | 5         | 10        | 10        | 5         | 5         | - | -  | -  | 10             | -  |
| Conjunctiva  | Redness       | D | 3                         | -   | 3         | 3         | 3         | 3         | 3         | - | -  | -  | 3              | -  |
|              | Chemosis      | E | 4                         | -   | 4         | 4         | 4         | 3         | 3         | - | -  | -  | 3              | -  |
|              | Discharge     | F | 1                         | -   | 3         | 3         | 3         | 2         | 3         | - | -  | -  | 3              | -  |
|              | (D+E+F) x 2   |   | 16                        | -   | 20        | 20        | 20        | 16        | 18        | - | -  | -  | 18             | -  |
| <b>Total</b> |               |   |                           | -   | <b>55</b> | <b>60</b> | <b>60</b> | <b>66</b> | <b>83</b> | - | -  | -  | <b>88</b>      | -  |

|             |               |   | Observation period (days) |     |    |    |    |    |    |   |    |    |    |    |
|-------------|---------------|---|---------------------------|-----|----|----|----|----|----|---|----|----|----|----|
| Animal No.  | 2             |   | 1 h                       | 4 h | 1  | 2  | 3  | 4  | 7  | 9 | 10 | 12 | 14 | 21 |
| Cornea      | Opacity       | A | 2                         | -   | 2  | 2  | 2  | 2  | 2  | - | -  | -  | 0  | -  |
|             | Area involved | B | 4                         | -   | 4  | 4  | 4  | 2  | 1  | - | -  | -  | 0  | -  |
|             | (AxB) x 5     |   | 40                        | -   | 40 | 40 | 40 | 20 | 10 | - | -  | -  | 0  | -  |
| Iris        |               | C | 1                         | -   | 1  | 1  | 1  | 0  | 0  | - | -  | -  | 0  | -  |
|             | C x 5         |   | 5                         | -   | 5  | 5  | 5  | 0  | 0  | - | -  | -  | 0  | -  |
| Conjunctiva | Redness       | D | 3                         | -   | 3  | 3  | 3  | 3  | 2  | - | -  | -  | 0  | -  |
|             | Chemosis      | E | 3                         | -   | 2  | 3  | 2  | 2  | 1  | - | -  | -  | 0  | -  |
|             | Discharge     | F | 2                         | -   | 2  | 1  | 2  | 2  | 0  | - | -  | -  | 0  | -  |
|             | (D+E+F) x 2   |   | 16                        | -   | 14 | 14 | 14 | 14 | 6  | - | -  | -  | 0  | -  |
| Total       |               |   | 61                        | -   | 59 | 59 | 59 | 34 | 16 | - | -  | -  | 0  | -  |

|              |               |   | Observation period (days) |          |           |           |           |           |           |          |          |          |           |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7         | 9        | 10       | 12       | 14        | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 2         | 2         | 3         | 3         | 3         | -        | -        | -        | 2         | -        |
|              | Area involved | B | 2                         | -        | 2         | 4         | 2         | 2         | 2         | -        | -        | -        | 1         | -        |
|              | (AxB) x 5     |   | 20                        | -        | 20        | 40        | 30        | 30        | 30        | -        | -        | -        | 10        | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | 1         | 1         | -        | -        | -        | 0         | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | 5         | 5         | -        | -        | -        | 0         | -        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3         | 3         | 3         | 3         | 3         | -        | -        | -        | 0         | -        |
|              | Chemosis      | E | 4                         | -        | 4         | 4         | 4         | 3         | 3         | -        | -        | -        | 0         | -        |
|              | Discharge     | F | 2                         | -        | 2         | 3         | 3         | 3         | 3         | -        | -        | -        | 0         | -        |
|              | (D+E+F) x 2   |   | 18                        | -        | 18        | 20        | 20        | 18        | 18        | -        | -        | -        | 0         | -        |
| <b>Total</b> |               |   | <b>43</b>                 | <b>-</b> | <b>43</b> | <b>65</b> | <b>55</b> | <b>53</b> | <b>53</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>10</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (60+59+65) = 61.3**

<sup>a</sup> Examination not possible due to swelling; <sup>b</sup> Maximum score assumed for iris (obscured by opacity)

**\*Di-iso-butyl Ketone<sup>a</sup>**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 108-83-8 | No. of rabbits       | 3      |
| Purity        | 99 %     |                      |        |
| Product No.   | 27,384-8 |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 2        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>8</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

MMAS (Modified Maximum Average Score) (2+0+0) = 0.7

<sup>a</sup> 2,6-Dimethyl-4-heptanone

**Methyl *iso*-Butyl Ketone**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fisher   | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 108-10-1 | No. of rabbits       | 4      |
| Purity        | 98 %     |                      |        |
| Product No.   | M-213    |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 4        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>9</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 2        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>2</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 4        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>4</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**Methyl *iso*-Butyl Ketone**

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 4        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>4</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(9+2+4+4) / 4 = 4.8$**



**Methyl Amyl Ketone [1 x]<sup>a</sup>**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | -        | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 110-43-0 | No. of rabbits       | 4      |
| Purity        | -        |                      |        |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 5         | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 12        | 4        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>24</b> | <b>17</b> | <b>4</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 4        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>4</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>7</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**Methyl Amyl Ketone [1 x]<sup>a</sup>**

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>7</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(24+4+7+7) / 4 = 10.5$**

<sup>a</sup> The same sample of the chemical was retested [1 x] in the same laboratory

**Methyl Amyl Ketone [2 x]<sup>a</sup>**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | -        | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 110-43-0 | No. of rabbits       | 4      |
| Purity        | -        |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6        | 4        | 4        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>6</b> | <b>4</b> | <b>4</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 4        | 4        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>17</b> | <b>4</b> | <b>4</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0        | 5        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 1        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 8        | 4        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>22</b> | <b>8</b> | <b>9</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**Methyl Amyl Ketone [2 x]<sup>a</sup>**

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1        | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1        | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 1        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 6        | 4        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>20</b> | <b>6</b> | <b>4</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (6+17+22+20) / 4 = 16.3**

<sup>a</sup> The same sample of the chemical was retested [2 x] in the same laboratory

**Methyl Ethyl Ketone**

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Source        | Fisher  | Concentration tested | 100 %  |
| Specification |         | Volume tested        | 0.1 ml |
| CAS No.       | 78-93-3 | No. of rabbits       | 4      |
| Purity        | 99 %    |                      |        |
| Product No.   | M-209   |                      |        |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 2        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 8        | 4        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>26</b> | <b>8</b> | <b>4</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 20        | 10        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0         | 0         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 3         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 3         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 18        | 12        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>54</b> | <b>38</b> | <b>22</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 2         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 20        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 5         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 3         | 2        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 3         | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 3         | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 18        | 8        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>52</b> | <b>43</b> | <b>8</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

**Methyl Ethyl Ketone**

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 2         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 20        | 0         | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 10        | 5         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 1         | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 3         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 18        | 10        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>68</b> | <b>48</b> | <b>15</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (26+54+52+68) / 4 = 50**

**Acetone**

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Source        | Fisher  | Concentration tested | 100 %  |
| Specification |         | Volume tested        | 0.1 ml |
| CAS No.       | 67-64-1 | No. of rabbits       | 4      |
| Purity        | 99 %    |                      |        |
| Product No.   | A-18    |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------|----|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 2         | - | 0        | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 2         | - | 0        | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 40        | 40        | 40        | - | 20        | - | 0        | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 2         | 1         | 1         | - | 1         | - | 1        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 10        | 5         | 5         | - | 5         | - | 5        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 3         | - | 2         | - | 1        | -  | 1        | 0        |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 3         | - | 2         | - | 0        | -  | 0        | 0        |
|              | Discharge     | F | -                         | -   | 3         | 3         | 3         | - | 1         | - | 0        | -  | 1        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 18        | 18        | - | 10        | - | 2        | -  | 4        | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>68</b> | <b>63</b> | <b>63</b> | - | <b>35</b> | - | <b>7</b> | -  | <b>4</b> | <b>0</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 20        | 5         | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 3         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 16        | 12        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>59</b> | <b>41</b> | <b>22</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 3         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 30        | 20        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 1         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 5         | 5         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 3         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 18        | 12        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>68</b> | <b>53</b> | <b>37</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

**Acetone**

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0         | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 2         | 1         | - | 0         | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 20        | 10        | - | 0         | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 1         | 1         | - | 0         | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 5         | 5         | - | 0         | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 3         | - | 2         | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 2         | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 3         | 3         | - | 1         | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 16        | 16        | - | 10        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>68</b> | <b>41</b> | <b>31</b> | - | <b>10</b> | - | <b>0</b> | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(68+59+68+68) / 4 = 65.8$**



**\*3-Chloropropionitrile**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 542-76-7 | No. of rabbits       | 3      |
| Purity        | 99.9 %   |                      |        |
| Product No.   | 26140    |                      |        |

|              |               |   | Observation period (days) |          |           |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 2         | 1        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 1         | 1        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 10        | 5        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 1                         | -        | 0         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 5                         | -        | 0         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 1         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 1         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 8                         | -        | 6         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>13</b>                 | <b>-</b> | <b>16</b> | <b>5</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 2         | 1        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 1         | 1        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 10        | 5        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1         | 1        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 1         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 1         | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 6         | 2        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>16</b> | <b>7</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 5        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 1        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 4        | 2        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>9</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (16+16+9) / 3 = 13.7**

**\*Diethylaminopropionitrile**

|               |             |                      |        |
|---------------|-------------|----------------------|--------|
| Source        | Elf Atochem | Concentration tested | 100 %  |
| Specification |             | Volume tested        | 0.1 ml |
| CAS No.       | 5351-04-2   | No. of rabbits       | 3      |
| Purity        | > 99.8 %    |                      |        |

|              |               |   | Observation period (days) |     |                |                |                |                |                |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------------|----------------|----------------|----------------|----------------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1              | 2              | 3              | 5              | 7              | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 4              | 4              | 4              | 2              | - <sup>a</sup> | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 2              | 2              | 2              | 2              | - <sup>a</sup> | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 40             | 40             | 40             | 20             | -              | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 1              | 1              | 1              | 1              | - <sup>a</sup> | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 5              | 5              | 5              | 5              | -              | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 3                         | -   | 3              | 3              | 3              | 3              | - <sup>a</sup> | - | -  | -  | -  | -  |
|              | Chemosis      | E | 3                         | -   | 4              | 4              | 4              | 4              | 4              | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>b</sup>            | -   | 3 <sup>c</sup> | 3 <sup>c</sup> | 3 <sup>c</sup> | 3 <sup>c</sup> | 3 <sup>c</sup> | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 20             | 20             | 20             | 20             | -              | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>65</b>      | <b>65</b>      | <b>65</b>      | <b>45</b>      | -              | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |                |                |                |           |           |          |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------------|----------------|----------------|-----------|-----------|----------|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1              | 2              | 3              | 5         | 7         | 9        | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 4              | 4              | 3              | 1         | 0         | 0        | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 2              | 2              | 1              | 2         | 0         | 0        | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 40             | 15             | 30             | 10        | 0         | 0        | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 1              | 1              | 1              | 1         | 1         | 0        | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 5              | 5              | 5              | 5         | 5         | 0        | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 3                         | -   | 3              | 3              | 3              | 3         | 2         | 0        | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 2              | 2              | 2              | 2         | 1         | 0        | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>b</sup>            | -   | 3 <sup>c</sup> | 3 <sup>c</sup> | 3 <sup>c</sup> | 0         | 0         | 0        | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 16             | 16             | 16             | 12        | 6         | 0        | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>61</b>      | <b>36</b>      | <b>51</b>      | <b>27</b> | <b>11</b> | <b>0</b> | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |                |           |           |           |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------------|-----------|-----------|-----------|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1              | 2         | 3         | 5         | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 4              | 2         | 2         | 2         | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 2              | 1         | 1         | 1         | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 40             | 10        | 10        | 10        | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 1              | 1         | 1         | 0         | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 5              | 5         | 5         | 0         | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 3                         | -   | 3              | 3         | 3         | 2         | 1        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 3                         | -   | 2              | 2         | 1         | 1         | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>b</sup>            | -   | 3 <sup>c</sup> | 0         | 0         | 0         | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 16             | 12        | 8         | 6         | 2        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>61</b>      | <b>27</b> | <b>23</b> | <b>16</b> | <b>2</b> | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (65+61+61) = 62.3**

<sup>a</sup> Evaluation obscured by chemosis; <sup>b</sup> Evaluation obscured by residual test substance

<sup>c</sup> White purulent discharge, score of 3 assigned

**\*Dibenzyl Phosphate**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Aldrich   | Concentration tested | 100 %  |
| Specification |           | Weight tested        | 100 mg |
| CAS No.       | 1623-08-1 | No. of rabbits       | 3      |
| Purity        | 99 %      |                      |        |
| Product No.   | D3,655-0  |                      |        |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 3                         | -        | 2         | 2         | 2         | -        | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 15                        | -        | 10        | 10        | 10        | -        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 0                         | -        | 1         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 0                         | -        | 5         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 2         | 2         | -        | 1        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 2                         | -        | 2         | 2         | 1         | -        | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 1                         | -        | 2         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 12        | 10        | 8         | -        | 2        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>25</b>                 | <b>-</b> | <b>27</b> | <b>20</b> | <b>18</b> | <b>-</b> | <b>2</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 1         | 1         | -        | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 3                         | -        | 2         | 2         | 2         | -        | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 15                        | -        | 10        | 10        | 10        | -        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 2         | 2         | -        | 2        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 2                         | -        | 3         | 3         | 3         | -        | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 1                         | -        | 2         | 2         | 2         | -        | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 14        | 14        | 14        | -        | 2        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>25</b>                 | <b>-</b> | <b>24</b> | <b>24</b> | <b>24</b> | <b>-</b> | <b>4</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |           |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7         | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 2         | 2         | 2         | -        | 1         | -        | -        | -        | 0        | -        |
|              | Area involved | B | 3                         | -        | 2         | 2         | 2         | -        | 2         | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 15                        | -        | 20        | 20        | 20        | -        | 10        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 0                         | -        | 1         | 1         | 1         | -        | 0         | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 0                         | -        | 5         | 5         | 5         | -        | 0         | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 3         | 3         | -        | 2         | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 2                         | -        | 3         | 3         | 3         | -        | 1         | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 1                         | -        | 2         | 3         | 3         | -        | 1         | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 14        | 18        | 18        | -        | 8         | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>25</b>                 | <b>-</b> | <b>39</b> | <b>43</b> | <b>43</b> | <b>-</b> | <b>18</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(27+24+39) / 3 = 30.0$

**\*Fomesafen, Acid Form**

|               |            |                      |        |
|---------------|------------|----------------------|--------|
| Source        | US-EPA     | Concentration tested | 100 %  |
| Specification |            | Weight tested        | 100 mg |
| CAS No.       | 72128-02-0 | No. of rabbits       | 6      |
| Purity        | 97.5 %     |                      |        |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 8        | 6        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>14</b> | <b>8</b> | <b>6</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1         | 1        | 1        | - | 1        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1         | 1        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8         | 4        | 2        | - | 2        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>13</b> | <b>4</b> | <b>2</b> | - | <b>2</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8        | 4        | 4        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>8</b> | <b>4</b> | <b>4</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**\*Fomesafen, Acid Form**

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 5         | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 1         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 8         | 6        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>22</b> | <b>13</b> | <b>6</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 1         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 2         | 4         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 20        | 5         | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1         | 1         | 1         | - | 1        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 1         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 8         | 6         | - | 2        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>22</b> | <b>28</b> | <b>11</b> | - | <b>2</b> | - | -  | -  | -  | -  |

MMAS (Modified Maximum Average Score)  $(14+13+8+22+2+22) / 6 = 13.5$

**\*Maneb**

|               |                      |                      |        |
|---------------|----------------------|----------------------|--------|
| Source        | US-EPA               | Concentration tested | 100 %  |
| Specification |                      | Weight tested        | 100 mg |
| CAS No.       | 12427-38-2           | No. of rabbits       | 6      |
| Purity        | 90 % (approximately) |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 3         | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 1         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 14        | 10        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>16</b> | <b>14</b> | <b>10</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3        | 2        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 8        | 6        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>10</b> | <b>8</b> | <b>6</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3        | 3        | 2        | - | 1        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8        | 8        | 6        | - | 2        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>8</b> | <b>8</b> | <b>6</b> | - | <b>2</b> | - | -  | -  | -  | -  |

**\*Maneb**

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3        | 2        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 8        | 6        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>10</b> | <b>8</b> | <b>6</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 3         | - | 1        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 4         | 3         | 3         | - | 1        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 1         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 20        | 14        | 12        | - | 4        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>30</b> | <b>14</b> | <b>12</b> | - | <b>4</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 2        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 10        | 6        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>12</b> | <b>10</b> | <b>6</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(16+10+8+10+30+12) / 6 = 14.3$**

**\*1-Naphthalene Acetic Acid**

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Source        | US-EPA  | Concentration tested | 100 %  |
| Specification |         | Weight tested        | 100 mg |
| CAS No.       | 86-87-3 | No. of rabbits       | 6      |
| Purity        | 96 %    |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 2         | 1         | 1         | - | 0        | - | 0        | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 4         | 4         | 2         | - | 0        | - | 0        | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 40        | 20        | 10        | - | 0        | - | 0        | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 1         | 0         | 1         | - | 0        | - | 0        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 5         | 0         | 5         | - | 0        | - | 0        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1         | 1         | - | 0        | - | 0        | -  | 0        | 0        |
|              | Chemosis      | E | -                         | -   | 1         | 0         | 0         | - | 0        | - | 0        | -  | 0        | 0        |
|              | Discharge     | F | -                         | -   | 2         | 1         | 1         | - | 0        | - | 0        | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 4         | 4         | - | 0        | - | 0        | -  | 0        | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>55</b> | <b>24</b> | <b>19</b> | - | <b>0</b> | - | <b>0</b> | -  | <b>0</b> | <b>0</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 1         | 1         | 1         | - | 1        | - | 1        | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 1        | - | 1        | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 20        | 20        | 20        | - | 5        | - | 5        | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 1         | 0         | 0         | - | 0        | - | 0        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0         | - | 0        | - | 0        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1         | 1         | - | 0        | - | 0        | -  | 0        | 0        |
|              | Chemosis      | E | -                         | -   | 1         | 0         | 0         | - | 0        | - | 0        | -  | 0        | 0        |
|              | Discharge     | F | -                         | -   | 2         | 1         | 1         | - | 0        | - | 0        | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 4         | 4         | - | 0        | - | 0        | -  | 0        | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>35</b> | <b>24</b> | <b>24</b> | - | <b>5</b> | - | <b>5</b> | -  | <b>0</b> | <b>0</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 1         | 1         | 1         | - | 1        | - | 0        | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 2         | 1         | 1         | - | 1        | - | 0        | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 10        | 5         | 5         | - | 5        | - | 0        | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 1         | 0         | 0         | - | 0        | - | 0        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0         | - | 0        | - | 0        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1        | - | 0        | -  | 0        | 0        |
|              | Chemosis      | E | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | 0        | 0        |
|              | Discharge     | F | -                         | -   | 2         | 3         | 3         | - | 0        | - | 0        | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 12        | 12        | - | 2        | - | 0        | -  | 0        | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>25</b> | <b>17</b> | <b>17</b> | - | <b>7</b> | - | <b>0</b> | -  | <b>0</b> | <b>0</b> |



**\*1-Naphthalene Acetic Acid**

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------|----|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 2         | 1         | 1         | - | 1         | - | 1        | -  | 1        | 0        |
|              | Area involved | B | -                         | -   | 3         | 4         | 4         | - | 2         | - | 1        | -  | 1        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 30        | 20        | 20        | - | 10        | - | 5        | -  | 5        | 0        |
| Iris         |               | C | -                         | -   | 1         | 2         | 2         | - | 1         | - | 0        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 5         | 10        | 10        | - | 5         | - | 0        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1         | - | 1        | -  | 0        | 0        |
|              | Chemosis      | E | -                         | -   | 2         | 1         | 1         | - | 0         | - | 0        | -  | 0        | 0        |
|              | Discharge     | F | -                         | -   | 3         | 3         | 3         | - | 1         | - | 0        | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 12        | 12        | - | 4         | - | 2        | -  | 0        | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>49</b> | <b>42</b> | <b>42</b> | - | <b>19</b> | - | <b>7</b> | -  | <b>5</b> | <b>0</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 1        | - | 0        | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 4         | 4         | 3         | - | 0        | - | 0        | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 40        | 40        | 30        | - | 0        | - | 0        | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0        | - | 0        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2         | - | 1        | - | 0        | -  | 0        | 0        |
|              | Chemosis      | E | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | 0        | 0        |
|              | Discharge     | F | -                         | -   | 3         | 3         | 3         | - | 1        | - | 0        | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 12        | 12        | - | 4        | - | 0        | -  | 0        | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>59</b> | <b>57</b> | <b>47</b> | - | <b>4</b> | - | <b>0</b> | -  | <b>0</b> | <b>0</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |           |    |           |           |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|-----------|----|-----------|-----------|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10        | 12 | 14        | 21        |
| Cornea       | Opacity       | A | -                         | -   | 2         | 1         | 1         | - | 1         | - | 2         | -  | 4         | 4         |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 2         | - | 1         | -  | 4         | 4         |
|              | (AxB) x 5     |   | -                         | -   | 40        | 20        | 20        | - | 10        | - | 10        | -  | 80        | 80        |
| Iris         |               | C | -                         | -   | 1         | 2         | 2         | - | 1         | - | 1         | -  | 1         | 1         |
|              | C x 5         |   | -                         | -   | 5         | 10        | 10        | - | 5         | - | 5         | -  | 5         | 5         |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1         | - | 2         | -  | 2         | 2         |
|              | Chemosis      | E | -                         | -   | 1         | 2         | 2         | - | 1         | - | 2         | -  | 2         | 2         |
|              | Discharge     | F | -                         | -   | 3         | 3         | 2         | - | 2         | - | 3         | -  | 3         | 3         |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 14        | 12        | - | 8         | - | 14        | -  | 14        | 14        |
| <b>Total</b> |               |   | -                         | -   | <b>57</b> | <b>44</b> | <b>42</b> | - | <b>23</b> | - | <b>29</b> | -  | <b>99</b> | <b>99</b> |

**MMAS (Modified Maximum Average Score)  $(55+35+25+49+59+57) / 6 = 46.7$**

**\*1-Naphthalene Acetic Acid, Sodium Salt**

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Source        | US-EPA  | Concentration tested | 100 %  |
| Specification |         | Weight tested        | 100 mg |
| CAS No.       | 61-31-4 | No. of rabbits       | 6      |
| Purity        | 95 %    |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |           |    |           |           |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|-----------|----|-----------|-----------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10        | 12 | 14        | 21        |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 3         | - | 3         | - | 3         | -  | 3         | 1         |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 2         | - | 1         | -  | 1         | 1         |
|              | (AxB) x 5     |   | -                         | -   | 60        | 60        | 60        | - | 30        | - | 15        | -  | 15        | 5         |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 1         | - | 1         | -  | 0         | 0         |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 5         | - | 5         | -  | 0         | 0         |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 2         | - | 2         | -  | 1         | 1         |
|              | Chemosis      | E | -                         | -   | 1         | 2         | 2         | - | 1         | - | 2         | -  | 2         | 1         |
|              | Discharge     | F | -                         | -   | 2         | 3         | 3         | - | 3         | - | 3         | -  | 2         | 1         |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 14        | 14        | - | 12        | - | 14        | -  | 10        | 6         |
| <b>Total</b> |               |   | -                         | -   | <b>75</b> | <b>79</b> | <b>79</b> | - | <b>47</b> | - | <b>34</b> | -  | <b>25</b> | <b>11</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------|----|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 1         | 1         | 1         | - | 1         | - | 1        | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 4         | 2         | 2         | - | 1         | - | 1        | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 20        | 10        | 10        | - | 5         | - | 5        | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 1         | - | 0        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 5         | - | 0        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1         | - | 0        | -  | 0        | 0        |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 0         | - | 0        | -  | 0        | 0        |
|              | Discharge     | F | -                         | -   | 3         | 3         | 3         | - | 0         | - | 0        | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 14        | 14        | - | 2         | - | 0        | -  | 0        | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>39</b> | <b>29</b> | <b>29</b> | - | <b>12</b> | - | <b>5</b> | -  | <b>0</b> | <b>0</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |           |    |           |           |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|-----------|----|-----------|-----------|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10        | 12 | 14        | 21        |
| Cornea       | Opacity       | A | -                         | -   | 3         | 2         | 2         | - | 3         | - | 3         | -  | 2         | 2         |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 2         | - | 2         | -  | 1         | 1         |
|              | (AxB) x 5     |   | -                         | -   | 60        | 40        | 40        | - | 30        | - | 30        | -  | 10        | 10        |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 1         | - | 0         | -  | 0         | 0         |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 5         | - | 0         | -  | 0         | 0         |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2         | - | 2         | - | 1         | -  | 1         | 1         |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 2         | - | 2         | -  | 2         | 2         |
|              | Discharge     | F | -                         | -   | 3         | 3         | 3         | - | 3         | - | 3         | -  | 2         | 2         |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 14        | 14        | - | 14        | - | 12        | -  | 10        | 10        |
| <b>Total</b> |               |   | -                         | -   | <b>83</b> | <b>59</b> | <b>59</b> | - | <b>49</b> | - | <b>42</b> | -  | <b>20</b> | <b>20</b> |

**\*1-Naphthalene Acetic Acid, Sodium Salt**

|              |               |   | Observation period (days) |     |                |                |                |   |                |   |                |    |                |                |
|--------------|---------------|---|---------------------------|-----|----------------|----------------|----------------|---|----------------|---|----------------|----|----------------|----------------|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1              | 2              | 3              | 4 | 7              | 9 | 10             | 12 | 14             | 21             |
| Cornea       | Opacity       | A | -                         | -   | 4              | 4              | 4              | - | 4              | - | 4              | -  | 4              | 4              |
|              | Area involved | B | -                         | -   | 4              | 4              | 4              | - | 3              | - | 3              | -  | 4              | 4              |
|              | (AxB) x 5     |   | -                         | -   | 80             | 80             | 80             | - | 60             | - | 60             | -  | 80             | 80             |
| Iris         |               | C | -                         | -   | 2 <sup>a</sup> | 2 <sup>a</sup> | 2 <sup>a</sup> | - | 2 <sup>a</sup> | - | 2 <sup>a</sup> | -  | 2 <sup>a</sup> | 2 <sup>a</sup> |
|              | C x 5         |   | -                         | -   | 10             | 10             | 10             | - | 10             | - | 10             | -  | 10             | 10             |
| Conjunctiva  | Redness       | D | -                         | -   | 1              | 1              | 1              | - | 1              | - | 1              | -  | 2              | 1              |
|              | Chemosis      | E | -                         | -   | 4              | 4              | 3              | - | 3              | - | 3              | -  | 3              | 3              |
|              | Discharge     | F | -                         | -   | 3              | 3              | 3              | - | 3              | - | 3              | -  | 3              | 3              |
|              | (D+E+F) x 2   |   | -                         | -   | 16             | 16             | 14             | - | 14             | - | 14             | -  | 16             | 14             |
| <b>Total</b> |               |   | -                         | -   | <b>106</b>     | <b>106</b>     | <b>104</b>     | - | <b>84</b>      | - | <b>84</b>      | -  | <b>106</b>     | <b>104</b>     |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |           |    |           |           |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|-----------|----|-----------|-----------|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10        | 12 | 14        | 21        |
| Cornea       | Opacity       | A | -                         | -   | 2         | 3         | 3         | - | 3         | - | 3         | -  | 3         | 3         |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 3         | - | 2         | -  | 3         | 4         |
|              | (AxB) x 5     |   | -                         | -   | 40        | 60        | 60        | - | 45        | - | 30        | -  | 45        | 60        |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 1         | - | 0         | -  | 0         | 0         |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 5         | - | 0         | -  | 0         | 0         |
| Conjunctiva  | Redness       | D | -                         | -   | 1         | 1         | 1         | - | 1         | - | 1         | -  | 1         | 1         |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 1         | - | 2         | - | 2         | -  | 2         | 2         |
|              | Discharge     | F | -                         | -   | 3         | 3         | 3         | - | 3         | - | 3         | -  | 3         | 3         |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 12        | 10        | - | 12        | - | 12        | -  | 12        | 12        |
| <b>Total</b> |               |   | -                         | -   | <b>57</b> | <b>77</b> | <b>75</b> | - | <b>62</b> | - | <b>42</b> | -  | <b>57</b> | <b>72</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 2         | 1         | 1         | - | 0        | - | 0        | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 10        | 5         | 5         | - | 0        | - | 0        | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 1        | - | 0        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 5        | - | 0        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | 0        | 0        |
|              | Chemosis      | E | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | 0        | 0        |
|              | Discharge     | F | -                         | -   | 3         | 3         | 2         | - | 0        | - | 0        | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 12        | 10        | - | 0        | - | 0        | -  | 0        | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>27</b> | <b>22</b> | <b>20</b> | - | <b>5</b> | - | <b>0</b> | -  | <b>0</b> | <b>0</b> |

**MMAS (Modified Maximum Average Score) (75+39+83+106+57+27) / 6 = 64.5**

<sup>a</sup> Lids closed, maximum iris score assumed

**\*Captan 90-Concentrate**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | US-EPA   | Concentration tested | 100 %  |
| Specification |          | Weight tested        | 100 mg |
| CAS No.       | 133-06-2 | No. of rabbits       | 3      |
| Purity        | 90 %     |                      |        |

|              |               |   | Observation period (days) |     |           |           |                |   |           |   |           |    |           |           |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------------|---|-----------|---|-----------|----|-----------|-----------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3              | 4 | 7         | 9 | 10        | 12 | 15        | 21        |
| Cornea       | Opacity       | A | -                         | -   | 1         | 4         | 4              | - | 3         | - | 1         | -  | 2         | 2         |
|              | Area involved | B | -                         | -   | 1         | 2         | 3              | - | 1         | - | 2         | -  | 1         | 1         |
|              | (AxB) x 5     |   | -                         | -   | 5         | 40        | 60             | - | 15        | - | 10        | -  | 10        | 10        |
| Iris         |               | C | -                         | -   | 1         | 1         | 1              | - | 0         | - | 0         | -  | 0         | 0         |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5              | - | 0         | - | 0         | -  | 0         | 0         |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 3 <sup>a</sup> | - | 3         | - | 2         | -  | 0         | 0         |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 2              | - | 1         | - | 1         | -  | 0         | 0         |
|              | Discharge     | F | -                         | -   | 3         | 3         | 3              | - | 2         | - | 2         | -  | 0         | 0         |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 18        | 16             | - | 12        | - | 10        | -  | 0         | 0         |
| <b>Total</b> |               |   | -                         | -   | <b>28</b> | <b>63</b> | <b>81</b>      | - | <b>27</b> | - | <b>20</b> | -  | <b>10</b> | <b>10</b> |

|              |               |   | Observation period (days) |     |                |           |                |   |            |   |                |    |                |                |
|--------------|---------------|---|---------------------------|-----|----------------|-----------|----------------|---|------------|---|----------------|----|----------------|----------------|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1              | 2         | 3              | 4 | 7          | 9 | 10             | 12 | 15             | 21             |
| Cornea       | Opacity       | A | -                         | -   | 2              | 2         | 4              | - | 4          | - | 4 <sup>b</sup> | -  | 4 <sup>b</sup> | 4 <sup>b</sup> |
|              | Area involved | B | -                         | -   | 2              | 4         | 4              | - | 4          | - | 4              | -  | 4              | 4              |
|              | (AxB) x 5     |   | -                         | -   | 20             | 40        | 80             | - | 80         | - | 80             | -  | 80             | 80             |
| Iris         |               | C | -                         | -   | 1              | 1         | 1              | - | 1          | - | 2 <sup>c</sup> | -  | 2 <sup>c</sup> | 2 <sup>c</sup> |
|              | C x 5         |   | -                         | -   | 5              | 5         | 5              | - | 5          | - | 10             | -  | 10             | 10             |
| Conjunctiva  | Redness       | D | -                         | -   | 3 <sup>a</sup> | 3         | 3 <sup>a</sup> | - | 3          | - | 3              | -  | 3              | 3              |
|              | Chemosis      | E | -                         | -   | 4              | 3         | 4              | - | 3          | - | 3              | -  | 2              | 1              |
|              | Discharge     | F | -                         | -   | 3              | 3         | 3              | - | 3          | - | 3              | -  | 2              | 2              |
|              | (D+E+F) x 2   |   | -                         | -   | 20             | 18        | 20             | - | 18         | - | 18             | -  | 14             | 12             |
| <b>Total</b> |               |   | -                         | -   | <b>45</b>      | <b>63</b> | <b>105</b>     | - | <b>103</b> | - | <b>108</b>     | -  | <b>104</b>     | <b>102</b>     |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |                |    |                |                |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------------|----|----------------|----------------|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10             | 12 | 15             | 21             |
| Cornea       | Opacity       | A | -                         | -   | 1         | 1         | 2         | - | 4         | - | 4 <sup>b</sup> | -  | 3 <sup>b</sup> | 3 <sup>b</sup> |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 3         | - | 3              | -  | 3              | 1              |
|              | (AxB) x 5     |   | -                         | -   | 20        | 20        | 40        | - | 60        | - | 60             | -  | 45             | 15             |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 1         | - | 2 <sup>c</sup> | -  | 0              | 0              |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 5         | - | 10             | -  | 0              | 0              |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 3         | - | 3         | - | 3              | -  | 2              | 1              |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 3         | - | 2         | - | 2              | -  | 1              | 0              |
|              | Discharge     | F | -                         | -   | 3         | 3         | 3         | - | 3         | - | 3              | -  | 3              | 2              |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 18        | 18        | - | 16        | - | 16             | -  | 12             | 6              |
| <b>Total</b> |               |   | -                         | -   | <b>43</b> | <b>43</b> | <b>63</b> | - | <b>81</b> | - | <b>86</b>      | -  | <b>57</b>      | <b>21</b>      |

**MMAS (Modified Maximum Average Score)  $(81+105+63) / 3 = 83.0$**

<sup>a</sup> Conjunctival bleeding; <sup>b</sup> Pannus; <sup>c</sup> Maximum score assumed for iris (obscured by opacity)

**\*Soap from 80/20-Tallow/Coconut Oil**

|               |                        |                      |        |
|---------------|------------------------|----------------------|--------|
| Source        | Unichema International | Concentration tested | 100 %  |
| Specification |                        | Weight tested        | 100 mg |
| CAS No.       | No single CAS No.      | No. of rabbits       | 3      |
| Purity        | -                      |                      |        |
| Trade Name    | Prisavon 1981          |                      |        |

|              |               |   | Observation period (days) |          |                  |                  |                  |          |                  |          |          |          |                  |          |
|--------------|---------------|---|---------------------------|----------|------------------|------------------|------------------|----------|------------------|----------|----------|----------|------------------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1                | 2                | 3                | 4        | 7                | 9        | 10       | 12       | 14               | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 0.5 <sup>a</sup> | 0.5 <sup>a</sup> | 0.5 <sup>a</sup> | -        | 0.5 <sup>a</sup> | -        | -        | -        | 0.5 <sup>a</sup> | 0        |
|              | Area involved | B | 4                         | -        | 4                | 4                | 3                | -        | 1                | -        | -        | -        | 0                | 0        |
|              | (AxB) x 5     |   | 20                        | -        | 10               | 10               | 7                | -        | 2                | -        | -        | -        | 0                | 0        |
| Iris         |               | C | 0                         | -        | 0                | 0                | 0                | -        | 0                | -        | -        | -        | 0                | 0        |
|              | C x 5         |   | 0                         | -        | 0                | 0                | 0                | -        | 0                | -        | -        | -        | 0                | 0        |
| Conjunctiva  | Redness       | D | 1                         | -        | 2                | 3                | 3                | -        | 1                | -        | -        | -        | 0                | 0        |
|              | Chemosis      | E | 3                         | -        | 2                | 2                | 2                | -        | 1                | -        | -        | -        | 0                | 0        |
|              | Discharge     | F | 3                         | -        | 2                | 1                | 1                | -        | 0                | -        | -        | -        | 0                | 0        |
|              | (D+E+F) x 2   |   | 14                        | -        | 12               | 12               | 12               | -        | 4                | -        | -        | -        | 0                | 0        |
| <b>Total</b> |               |   | <b>34</b>                 | <b>-</b> | <b>22</b>        | <b>22</b>        | <b>19</b>        | <b>-</b> | <b>6</b>         | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b>         | <b>0</b> |

|              |               |   | Observation period (days) |          |                  |                  |                  |          |                  |          |          |          |                  |          |
|--------------|---------------|---|---------------------------|----------|------------------|------------------|------------------|----------|------------------|----------|----------|----------|------------------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1                | 2                | 3                | 4        | 7                | 9        | 10       | 12       | 14               | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 0.5 <sup>a</sup> | 0.5 <sup>a</sup> | 0.5 <sup>a</sup> | -        | 0.5 <sup>a</sup> | -        | -        | -        | 0.5 <sup>a</sup> | 0        |
|              | Area involved | B | 3                         | -        | 4                | 2                | 2                | -        | 1                | -        | -        | -        | 0                | 0        |
|              | (AxB) x 5     |   | 15                        | -        | 10               | 5                | 5                | -        | 2                | -        | -        | -        | 0                | 0        |
| Iris         |               | C | 0                         | -        | 0                | 1                | 0                | -        | 0                | -        | -        | -        | 0                | 0        |
|              | C x 5         |   | 0                         | -        | 0                | 5                | 0                | -        | 0                | -        | -        | -        | 0                | 0        |
| Conjunctiva  | Redness       | D | 1                         | -        | 3                | 3                | 3                | -        | 2                | -        | -        | -        | 0                | 0        |
|              | Chemosis      | E | 3                         | -        | 2                | 2                | 2                | -        | 1                | -        | -        | -        | 0                | 0        |
|              | Discharge     | F | 3                         | -        | 2                | 2                | 1                | -        | 0                | -        | -        | -        | 0                | 0        |
|              | (D+E+F) x 2   |   | 14                        | -        | 14               | 14               | 12               | -        | 6                | -        | -        | -        | 0                | 0        |
| <b>Total</b> |               |   | <b>29</b>                 | <b>-</b> | <b>24</b>        | <b>24</b>        | <b>17</b>        | <b>-</b> | <b>8</b>         | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b>         | <b>0</b> |

|              |               |   | Observation period (days) |          |                  |                  |                  |          |                  |          |          |          |                  |           |
|--------------|---------------|---|---------------------------|----------|------------------|------------------|------------------|----------|------------------|----------|----------|----------|------------------|-----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1                | 2                | 3                | 4        | 7                | 9        | 10       | 12       | 14               | 21        |
| Cornea       | Opacity       | A | 0.5 <sup>a</sup>          | -        | 0.5 <sup>a</sup> | 0.5 <sup>a</sup> | 0.5 <sup>a</sup> | -        | 0.5 <sup>a</sup> | -        | -        | -        | 0.5 <sup>a</sup> | 1         |
|              | Area involved | B | 4                         | -        | 4                | 2                | 2                | -        | 2                | -        | -        | -        | 2                | 4         |
|              | (AxB) x 5     |   | 10                        | -        | 10               | 5                | 5                | -        | 5                | -        | -        | -        | 5                | 20        |
| Iris         |               | C | 0                         | -        | 0                | 0                | 0                | -        | 0                | -        | -        | -        | 0                | 0         |
|              | C x 5         |   | 0                         | -        | 0                | 0                | 0                | -        | 0                | -        | -        | -        | 0                | 0         |
| Conjunctiva  | Redness       | D | 1                         | -        | 3                | 3                | 3                | -        | 3                | -        | -        | -        | 1                | 1         |
|              | Chemosis      | E | 3                         | -        | 2                | 2                | 2                | -        | 2                | -        | -        | -        | 0                | 0         |
|              | Discharge     | F | 3                         | -        | 2                | 2                | 1                | -        | 1                | -        | -        | -        | 0                | 1         |
|              | (D+E+F) x 2   |   | 14                        | -        | 14               | 14               | 12               | -        | 12               | -        | -        | -        | 2                | 4         |
| <b>Total</b> |               |   | <b>24</b>                 | <b>-</b> | <b>24</b>        | <b>19</b>        | <b>17</b>        | <b>-</b> | <b>17</b>        | <b>-</b> | <b>-</b> | <b>-</b> | <b>7</b>         | <b>24</b> |

**MMAS (Modified Maximum Average Score) (22+24+24) = 23.3**

<sup>a</sup> Very slight opacity, assumed score 0.5

**\*Soap from 80/20-Palm Oil/Coconut Oil**

|               |                        |                      |        |
|---------------|------------------------|----------------------|--------|
| Source        | Unichema International | Concentration tested | 100 %  |
| Specification |                        | Weight tested        | 100 mg |
| CAS No.       | No single CAS No.      | No. of rabbits       | 3      |
| Purity        | -                      |                      |        |
| Product No.   | Prisavon 9240          |                      |        |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 1         | 1         | -        | 1        | -        | -        | -        | 0        | 0        |
|              | Area involved | B | 4                         | -        | 4         | 4         | 3         | -        | 1        | -        | -        | -        | 0        | 0        |
|              | (AxB) x 5     |   | 20                        | -        | 20        | 20        | 15        | -        | 5        | -        | -        | -        | 0        | 0        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
| Conjunctiva  | Redness       | D | 1                         | -        | 3         | 3         | 2         | -        | 1        | -        | -        | -        | 1        | 1        |
|              | Chemosis      | E | 2                         | -        | 2         | 1         | 1         | -        | 1        | -        | -        | -        | 0        | 0        |
|              | Discharge     | F | 3                         | -        | 1         | 1         | 0         | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (D+E+F) x 2   |   | 12                        | -        | 12        | 10        | 6         | -        | 4        | -        | -        | -        | 2        | 2        |
| <b>Total</b> |               |   | <b>32</b>                 | <b>-</b> | <b>32</b> | <b>30</b> | <b>21</b> | <b>-</b> | <b>9</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>2</b> | <b>2</b> |

|              |               |   | Observation period (days) |          |                  |                  |                  |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|------------------|------------------|------------------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1                | 2                | 3                | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0.5 <sup>a</sup>          | -        | 0.5 <sup>a</sup> | 0.5 <sup>a</sup> | 0.5 <sup>a</sup> | -        | 0        | -        | -        | -        | 0        | 0        |
|              | Area involved | B | 4                         | -        | 4                | 3                | 1                | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (AxB) x 5     |   | 10                        | -        | 10               | 7                | 2                | -        | 0        | -        | -        | -        | 0        | 0        |
| Iris         |               | C | 0                         | -        | 1                | 0                | 0                | -        | 0        | -        | -        | -        | 0        | 0        |
|              | C x 5         |   | 0                         | -        | 5                | 0                | 0                | -        | 0        | -        | -        | -        | 0        | 0        |
| Conjunctiva  | Redness       | D | 1                         | -        | 3                | 3                | 2                | -        | 1        | -        | -        | -        | 1        | 1        |
|              | Chemosis      | E | 2                         | -        | 2                | 2                | 1                | -        | 1        | -        | -        | -        | 0        | 0        |
|              | Discharge     | F | 3                         | -        | 1                | 1                | 0                | -        | 0        | -        | -        | -        | 0        | 0        |
|              | (D+E+F) x 2   |   | 12                        | -        | 12               | 12               | 6                | -        | 4        | -        | -        | -        | 2        | 2        |
| <b>Total</b> |               |   | <b>22</b>                 | <b>-</b> | <b>27</b>        | <b>19</b>        | <b>8</b>         | <b>-</b> | <b>4</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>2</b> | <b>2</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |                  |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|------------------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7                | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 1         | 1         | -        | 0.5 <sup>a</sup> | -        | -        | -        | 0        | 0        |
|              | Area involved | B | 4                         | -        | 4         | 4         | 3         | -        | 1                | -        | -        | -        | 0        | 0        |
|              | (AxB) x 5     |   | 20                        | -        | 20        | 20        | 15        | -        | 2                | -        | -        | -        | 0        | 0        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 0         | -        | 0                | -        | -        | -        | 0        | 0        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 0         | -        | 0                | -        | -        | -        | 0        | 0        |
| Conjunctiva  | Redness       | D | 1                         | -        | 2         | 3         | 3         | -        | 2                | -        | -        | -        | 1        | 0        |
|              | Chemosis      | E | 3                         | -        | 2         | 2         | 2         | -        | 1                | -        | -        | -        | 0        | 0        |
|              | Discharge     | F | 3                         | -        | 1         | 1         | 1         | -        | 0                | -        | -        | -        | 0        | 0        |
|              | (D+E+F) x 2   |   | 14                        | -        | 10        | 12        | 12        | -        | 6                | -        | -        | -        | 2        | 0        |
| <b>Total</b> |               |   | <b>39</b>                 | <b>-</b> | <b>35</b> | <b>37</b> | <b>27</b> | <b>-</b> | <b>8</b>         | <b>-</b> | <b>-</b> | <b>-</b> | <b>2</b> | <b>0</b> |

**MMAS (Modified Maximum Average Score) (32+27+35) / 3 = 31.3**

<sup>a</sup> Very slight opacity, assumed score 0.5

**\*Sodium Undecylenate Solution**

|               |             |                      |                 |
|---------------|-------------|----------------------|-----------------|
| Source        | Elf Atochem | Concentration tested | 33.2 % in water |
| Specification |             | Volume tested        | 0.1 ml          |
| CAS No.       | 3398-33-2   | No. of rabbits       | 1               |
| Purity        | -           |                      |                 |

|              |               |   | Observation period (days) |     |           |           |                |   |           |           |    |          |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------------|---|-----------|-----------|----|----------|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3              | 4 | 7         | 9         | 10 | 11       | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 4         | 4         | 4              | - | 2         | 1         | -  | 0        | -  | -  |
|              | Area involved | B | 0                         | -   | 1         | 1         | 1              | - | 1         | 1         | -  | 0        | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 20        | 20        | 20             | - | 10        | 5         | -  | 0        | -  | -  |
| Iris         |               | C | 0                         | -   | 1         | 1         | 1              | - | 1         | 0         | -  | 0        | -  | -  |
|              | C x 5         |   | 0                         | -   | 5         | 5         | 5              | - | 5         | 0         | -  | 0        | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 3         | 2         | 3              | - | 2         | 2         | -  | 0        | -  | -  |
|              | Chemosis      | E | 2                         | -   | 3         | 3         | 4              | - | 2         | 1         | -  | 0        | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 2         | 1         | 3 <sup>b</sup> | - | 1         | 0         | -  | 0        | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 12        | 20             | - | 10        | 6         | -  | 0        | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>41</b> | <b>37</b> | <b>45</b>      | - | <b>25</b> | <b>11</b> | -  | <b>0</b> | -  | -  |

**MMAS (Modified Maximum Average Score) = 45**<sup>a</sup> Evaluation obscured by residual test substance<sup>b</sup> White purulent discharge, score of 3 assigned

**Sodium Lauryl Sulphate**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Sigma    | Concentration tested | 3.0 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 151-21-3 | No. of rabbits       | 6      |
| Purity        | 98 %     |                      |        |
| Product No.   | L-4509   |                      |        |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 1        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8         | 6        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>13</b> | <b>6</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 4        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>27</b> | <b>4</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 1        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 4        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>22</b> | <b>4</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |



**Sodium Lauryl Sulphate**

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>8</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 10        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 10        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>20</b> | <b>20</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>6</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (13+27+22+8+20+6) / 6 = 16**

**Sodium Lauryl Sulphate**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Sigma    | Concentration tested | 15.0 % |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 151-21-3 | No. of rabbits       | 6      |
| Purity        | 98 %     |                      |        |
| Product No.   | L-4509   |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 1         | - | 0         | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 3         | 2         | - | 0         | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 30        | 10        | - | 0         | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0         | 0         | - | 1         | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0         | 0         | - | 5         | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 2         | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1         | 1         | - | 1         | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 1         | - | 0         | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 10        | 8         | - | 6         | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>54</b> | <b>40</b> | <b>18</b> | - | <b>11</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 3         | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 20        | 5         | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0         | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 1         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 8         | 6         | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>47</b> | <b>33</b> | <b>11</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 20        | 5         | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 10        | 5         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 12        | 10        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>66</b> | <b>42</b> | <b>20</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

**Sodium Lauryl Sulphate**

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 1         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 3         | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 10        | 5         | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 1         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 5         | 5         | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 1         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 8         | 8         | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>52</b> | <b>23</b> | <b>18</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |           |    |           |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|-----------|----|-----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10        | 12 | 14        | 21       |
| Cornea       | Opacity       | A | -                         | -   | 2         | 1         | 1         | - | 1         | - | 1         | -  | 1         | 1        |
|              | Area involved | B | -                         | -   | 4         | 2         | 1         | - | 1         | - | 1         | -  | 1         | 1        |
|              | (AxB) x 5     |   | -                         | -   | 40        | 10        | 5         | - | 5         | - | 5         | -  | 5         | 5        |
| Iris         |               | C | -                         | -   | 2         | 1         | 1         | - | 0         | - | 0         | -  | 2         | 0        |
|              | C x 5         |   | -                         | -   | 10        | 5         | 5         | - | 0         | - | 0         | -  | 10        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2         | - | 2         | - | 1         | -  | 1         | 0        |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 2         | - | 1         | -  | 1         | 0        |
|              | Discharge     | F | -                         | -   | 3         | 2         | 2         | - | 2         | - | 1         | -  | 1         | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 12        | 12        | - | 12        | - | 6         | -  | 6         | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>68</b> | <b>27</b> | <b>22</b> | - | <b>17</b> | - | <b>11</b> | -  | <b>21</b> | <b>5</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 4         | 2         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 20        | 10        | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 2         | 1         | 1         | - | 1        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 10        | 5         | 5         | - | 5        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2         | - | 1        | - | 1        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 12        | 10        | - | 2        | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>68</b> | <b>37</b> | <b>25</b> | - | <b>7</b> | - | <b>2</b> | -  | <b>0</b> | -  |

**MMAS (Modified Maximum Average Score)  $(54+47+66+52+68+68) / 6 = 59.2$**

**Sodium Lauryl Sulphate**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Sigma    | Concentration tested | 30 %   |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 151-21-3 | No. of rabbits       | 6      |
| Purity        | 98 %     |                      |        |
| Product No.   | L-4509   |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 20        | 20        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 1         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 5         | 5         | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 3         | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 14        | 14        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>66</b> | <b>39</b> | <b>39</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 40        | 20        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 14        | 12        | - | 6        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>61</b> | <b>59</b> | <b>37</b> | - | <b>6</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 3         | 2         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 20        | 0         | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 4         | 3         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 14        | 10        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>53</b> | <b>39</b> | <b>10</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

**Sodium Lauryl Sulphate**

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 3         | 3         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 30        | 30        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 3         | 3         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 16        | 14        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>61</b> | <b>51</b> | <b>49</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |           |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|-----------|----|----------|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10        | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 3         | - | 2         | - | 2         | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 4         | 3         | 3         | - | 1         | - | 1         | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 60        | 45        | 45        | - | 10        | - | 10        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0         | - | 0         | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0         | - | 0         | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 3         | - | 0         | - | 0         | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 0         | - | 0         | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 2         | - | 0         | - | 0         | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 14        | 14        | - | 0         | - | 0         | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>81</b> | <b>64</b> | <b>64</b> | - | <b>10</b> | - | <b>10</b> | -  | <b>0</b> | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 2         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 20        | 10        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 12        | 6        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>41</b> | <b>22</b> | <b>6</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(66+61+53+61+81+41) / 6 = 60.5$**

**Benzalkonium Chloride [1 x]<sup>a</sup>**

|               |            |                      |        |
|---------------|------------|----------------------|--------|
| Source        | Sigma      | Concentration tested | 1.0 %  |
| Specification |            | Volume tested        | 0.1 ml |
| CAS No.       | 63449-41-2 | No. of rabbits       | 4      |
| Purity        | 98 %       |                      |        |
| Product No.   | B-1383     |                      |        |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 2         | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 2         | 1         | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 10        | 5        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 12        | 4        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>29</b> | <b>27</b> | <b>9</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 5         | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 10        | 4        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>22</b> | <b>15</b> | <b>4</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1        | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2        | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 1        | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 8        | 6        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>29</b> | <b>8</b> | <b>6</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

**Benzalkonium Chloride [1 x]<sup>a</sup>**

|              |               |   | Observation period (days) |     |           |   |   |   |           |   |    |    |                |                |
|--------------|---------------|---|---------------------------|-----|-----------|---|---|---|-----------|---|----|----|----------------|----------------|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2 | 3 | 4 | 7         | 9 | 10 | 12 | 14             | 21             |
| Cornea       | Opacity       | A | -                         | -   | 2         | - | - | - | 3         | - | -  | -  | 1 <sup>b</sup> | 1 <sup>b</sup> |
|              | Area involved | B | -                         | -   | 4         | - | - | - | 2         | - | -  | -  | 1              | 1              |
|              | (AxB) x 5     |   | -                         | -   | 40        | - | - | - | 30        | - | -  | -  | 5              | 5              |
| Iris         |               | C | -                         | -   | 1         | - | - | - | 0         | - | -  | -  | 0              | 0              |
|              | C x 5         |   | -                         | -   | 5         | - | - | - | 0         | - | -  | -  | 0              | 0              |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | - | - | - | 2         | - | -  | -  | 1              | 1              |
|              | Chemosis      | E | -                         | -   | 2         | - | - | - | 2         | - | -  | -  | 1              | 1              |
|              | Discharge     | F | -                         | -   | 2         | - | - | - | 2         | - | -  | -  | 2              | 2              |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | - | - | - | 12        | - | -  | -  | 8              | 8              |
| <b>Total</b> |               |   | -                         | -   | <b>57</b> | - | - | - | <b>42</b> | - | -  | -  | <b>13</b>      | <b>13</b>      |

**MMAS (Modified Maximum Average Score)  $(29+22+29+57) / 4 = 34.3$**

<sup>a</sup> The same sample of the chemical was retested [1 x] in the same laboratory

<sup>b</sup> Pannus

**Benzalkonium Chloride [2 x]<sup>a</sup>**

|               |            |                      |        |
|---------------|------------|----------------------|--------|
| Source        | Sigma      | Concentration tested | 1.0 %  |
| Specification |            | Volume tested        | 0.1 ml |
| CAS No.       | 63449-41-2 | No. of rabbits       | 6      |
| Purity        | 98 %       |                      |        |
| Product No.   | B-1383     |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |                |   |                |    |                |                |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------------|---|----------------|----|----------------|----------------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7              | 9 | 10             | 12 | 14             | 21             |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 3 <sup>b</sup> | - | 3 <sup>b</sup> | -  | 4 <sup>b</sup> | 3 <sup>b</sup> |
|              | Area involved | B | -                         | -   | 3         | 3         | 3         | - | 2              | - | 2              | -  | 2              | 1              |
|              | (AxB) x 5     |   | -                         | -   | 30        | 30        | 30        | - | 30             | - | 30             | -  | 40             | 15             |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 1              | - | 1              | -  | 0              | 0              |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 5              | - | 5              | -  | 0              | 0              |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 2              | - | 2              | -  | 2              | 0              |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 3         | - | 2              | - | 2              | -  | 2              | 1              |
|              | Discharge     | F | -                         | -   | 2         | 3         | 2         | - | 2              | - | 2              | -  | 2              | 0              |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 16        | 14        | - | 12             | - | 12             | -  | 12             | 2              |
| <b>Total</b> |               |   | -                         | -   | <b>49</b> | <b>51</b> | <b>49</b> | - | <b>47</b>      | - | <b>47</b>      | -  | <b>52</b>      | <b>17</b>      |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |                |    |                |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------------|----|----------------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10             | 12 | 14             | 21       |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 2         | - | 2 <sup>b</sup> | -  | 2 <sup>b</sup> | 0        |
|              | Area involved | B | -                         | -   | 3         | 3         | 2         | - | 2         | - | 1              | -  | 1              | 0        |
|              | (AxB) x 5     |   | -                         | -   | 30        | 30        | 20        | - | 20        | - | 10             | -  | 10             | 0        |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0         | - | 0              | -  | 0              | 0        |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0         | - | 0              | -  | 0              | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 2         | - | 1              | -  | 1              | 0        |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 3         | - | 2         | - | 2              | -  | 1              | 1        |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 2         | - | 2              | -  | 0              | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 14        | 14        | - | 12        | - | 10             | -  | 4              | 2        |
| <b>Total</b> |               |   | -                         | -   | <b>49</b> | <b>49</b> | <b>39</b> | - | <b>32</b> | - | <b>20</b>      | -  | <b>14</b>      | <b>2</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |           |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|-----------|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10        | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 2         | - | 2         | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 3         | - | 1         | - | 1         | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 40        | 30        | - | 10        | - | 10        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0         | - | 0         | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0         | - | 0         | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 3         | 2         | - | 2         | - | 1         | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 4         | 4         | 3         | - | 2         | - | 2         | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 2         | - | 2         | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 18        | 14        | - | 12        | - | 10        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>61</b> | <b>63</b> | <b>49</b> | - | <b>22</b> | - | <b>20</b> | -  | -  | -  |



**Benzalkonium Chloride [2 x]<sup>a</sup>**

|              |               |   | Observation period (days) |     |           |           |           |   |                |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7              | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 2 <sup>b</sup> | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 3         | - | 1              | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 40        | 30        | - | 10             | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 1         | 1         | - | 0              | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 5         | 5         | - | 0              | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 3         | 3         | - | 1              | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 1              | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 0              | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 14        | 14        | - | 4              | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>64</b> | <b>59</b> | <b>49</b> | - | <b>14</b>      | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |                |   |                |    |           |           |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------------|---|----------------|----|-----------|-----------|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7              | 9 | 10             | 12 | 14        | 21        |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 3         | - | 2 <sup>b</sup> | - | 2 <sup>b</sup> | -  | 2         | 2         |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 1              | - | 1              | -  | 1         | 1         |
|              | (AxB) x 5     |   | -                         | -   | 40        | 40        | 60        | - | 10             | - | 10             | -  | 10        | 10        |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0              | - | 0              | -  | 0         | 0         |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0              | - | 0              | -  | 0         | 0         |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1              | - | 1              | -  | 0         | 0         |
|              | Chemosis      | E | -                         | -   | 4         | 3         | 2         | - | 1              | - | 1              | -  | 0         | 0         |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 2              | - | 2              | -  | 0         | 0         |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 14        | 12        | - | 8              | - | 8              | -  | 0         | 0         |
| <b>Total</b> |               |   | -                         | -   | <b>61</b> | <b>59</b> | <b>77</b> | - | <b>18</b>      | - | <b>18</b>      | -  | <b>10</b> | <b>10</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 3         | 3         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 30        | 20        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 10        | 5         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 2         | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 2        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 14        | 12        | - | 8        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>54</b> | <b>54</b> | <b>37</b> | - | <b>8</b> | - | <b>0</b> | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (49+49+61+64+61+54) / 6 = 56.3**

<sup>a</sup> The same sample of the chemical was retested [2 x] in the same laboratory

<sup>b</sup> Pannus

**Benzalkonium Chloride**

|               |            |                      |        |
|---------------|------------|----------------------|--------|
| Source        | Sigma      | Concentration tested | 5.0 %  |
| Specification |            | Volume tested        | 0.1 ml |
| CAS No.       | 63449-41-2 | No. of rabbits       | 4      |
| Purity        | 98 %       |                      |        |
| Product No.   | B-1383     |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |           |    |                |           |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|-----------|----|----------------|-----------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10        | 12 | 14             | 21        |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 3         | - | 2         | - | 2         | -  | 2 <sup>a</sup> | 2         |
|              | Area involved | B | -                         | -   | 4         | 3         | 2         | - | 3         | - | 3         | -  | 1              | 1         |
|              | (AxB) x 5     |   | -                         | -   | 60        | 45        | 30        | - | 30        | - | 30        | -  | 10             | 10        |
| Iris         |               | C | -                         | -   | 1         | 2         | 2         | - | 2         | - | 1         | -  | 0              | 0         |
|              | C x 5         |   | -                         | -   | 5         | 10        | 10        | - | 10        | - | 5         | -  | 0              | 0         |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 2         | - | 2         | -  | 1              | 1         |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 2         | - | 2         | - | 2         | -  | 1              | 1         |
|              | Discharge     | F | -                         | -   | 3         | 3         | 2         | - | 1         | - | 1         | -  | 1              | 1         |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 16        | 12        | - | 10        | - | 10        | -  | 6              | 6         |
| <b>Total</b> |               |   | -                         | -   | <b>81</b> | <b>71</b> | <b>52</b> | - | <b>50</b> | - | <b>45</b> | -  | <b>16</b>      | <b>16</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------|----|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 2         | - | 1         | - | 0        | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 4         | 4         | 3         | - | 1         | - | 0        | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 60        | 60        | 30        | - | 5         | - | 0        | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 2         | 2         | 2         | - | 1         | - | 0        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 10        | 10        | 10        | - | 5         | - | 0        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 2         | - | 1         | - | 1        | -  | 1        | 0        |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 2         | - | 1         | - | 0        | -  | 0        | 0        |
|              | Discharge     | F | -                         | -   | 3         | 3         | 2         | - | 1         | - | 0        | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 18        | 12        | - | 6         | - | 2        | -  | 2        | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>88</b> | <b>88</b> | <b>52</b> | - | <b>16</b> | - | <b>2</b> | -  | <b>2</b> | <b>0</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |                |   |                |    |                 |                |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------------|---|----------------|----|-----------------|----------------|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7              | 9 | 10             | 12 | 14              | 21             |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 3         | - | 4 <sup>a</sup> | - | 4 <sup>a</sup> | -  | 4 <sup>ab</sup> | 4 <sup>a</sup> |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 4              | - | 4              | -  | 4               | 4              |
|              | (AxB) x 5     |   | -                         | -   | 60        | 60        | 60        | - | 80             | - | 80             | -  | 80              | 80             |
| Iris         |               | C | -                         | -   | 2         | 2         | 2         | - | 2 <sup>c</sup> | - | 2 <sup>c</sup> | -  | 2               | 2              |
|              | C x 5         |   | -                         | -   | 10        | 10        | 10        | - | 10             | - | 10             | -  | 10              | 10             |
| Conjunctiva  | Redness       | D | -                         | -   | 1         | 2         | 2         | - | 1              | - | 1              | -  | 1               | 0              |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 3         | - | 1              | - | 1              | -  | 1               | 0              |
|              | Discharge     | F | -                         | -   | 2         | 3         | 3         | - | 1              | - | 1              | -  | 1               | 0              |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 16        | 16        | - | 6              | - | 6              | -  | 6               | 0              |
| <b>Total</b> |               |   | -                         | -   | <b>82</b> | <b>86</b> | <b>86</b> | - | <b>96</b>      | - | <b>96</b>      | -  | <b>96</b>       | <b>90</b>      |

**Benzalkonium Chloride**

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------|----|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 2         | - | 1         | - | 0        | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 4         | 3         | 2         | - | 2         | - | 0        | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 60        | 45        | 20        | - | 10        | - | 0        | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 2         | 2         | 1         | - | 0         | - | 0        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 10        | 10        | 5         | - | 0         | - | 0        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1         | - | 1        | -  | 1        | 0        |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 3         | - | 1         | - | 1        | -  | 1        | 0        |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 0         | - | 0        | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 14        | 14        | - | 4         | - | 4        | -  | 4        | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>84</b> | <b>69</b> | <b>39</b> | - | <b>14</b> | - | <b>4</b> | -  | <b>4</b> | <b>0</b> |

**MMAS (Modified Maximum Average Score)  $(81+88+82+84) / 4 = 83.8$**

<sup>a</sup> Keratoconus

<sup>b</sup> Pannus

<sup>c</sup> Maximum score assumed for iris (obscured by opacity)

**Benzalkonium Chloride**

|               |            |                      |        |
|---------------|------------|----------------------|--------|
| Source        | Sigma      | Concentration tested | 10.0 % |
| Specification |            | Volume tested        | 0.1 ml |
| CAS No.       | 63449-41-2 | No. of rabbits       | 3      |
| Purity        | 98 %       |                      |        |
| Product No.   | B-1383     |                      |        |

|              |               | Observation period (days) |     |     |           |            |            |   |                |   |                 |    |                 |                 |
|--------------|---------------|---------------------------|-----|-----|-----------|------------|------------|---|----------------|---|-----------------|----|-----------------|-----------------|
| Animal No.   | 1             |                           | 1 h | 4 h | 1         | 2          | 3          | 4 | 7              | 9 | 10              | 12 | 14              | 21              |
| Cornea       | Opacity       | A                         | -   | -   | 3         | 4          | 4          | - | 4 <sup>a</sup> | - | 4 <sup>ab</sup> | -  | 4 <sup>ab</sup> | 4 <sup>ab</sup> |
|              | Area involved | B                         | -   | -   | 4         | 4          | 4          | - | 4              | - | 4               | -  | 4               | 4               |
|              | (AxB) x 5     |                           | -   | -   | 60        | 80         | 80         | - | 80             | - | 80              | -  | 80              | 80              |
| Iris         |               | C                         | -   | -   | 2         | 2          | 2          | - | 2 <sup>c</sup> | - | 2 <sup>c</sup>  | -  | 2 <sup>c</sup>  | 2 <sup>c</sup>  |
|              | C x 5         |                           | -   | -   | 10        | 10         | 10         | - | 10             | - | 10              | -  | 10              | 10              |
| Conjunctiva  | Redness       | D                         | -   | -   | 3         | 3          | 3          | - | 3              | - | 2               | -  | 1               | 0               |
|              | Chemosis      | E                         | -   | -   | 4         | 4          | 4          | - | 2              | - | 2               | -  | 2               | 2               |
|              | Discharge     | F                         | -   | -   | 2         | 2          | 2          | - | 2              | - | 2               | -  | 2               | 2               |
|              | (D+E+F) x 2   |                           | -   | -   | 18        | 18         | 18         | - | 14             | - | 12              | -  | 10              | 8               |
| <b>Total</b> |               |                           | -   | -   | <b>88</b> | <b>108</b> | <b>108</b> | - | <b>104</b>     | - | <b>102</b>      | -  | <b>100</b>      | <b>98</b>       |

|              |               | Observation period (days) |     |     |           |           |            |   |                |   |                 |    |                 |                 |
|--------------|---------------|---------------------------|-----|-----|-----------|-----------|------------|---|----------------|---|-----------------|----|-----------------|-----------------|
| Animal No.   | 2             |                           | 1 h | 4 h | 1         | 2         | 3          | 4 | 7              | 9 | 10              | 12 | 14              | 21              |
| Cornea       | Opacity       | A                         | -   | -   | 3         | 3         | 4          | - | 4 <sup>a</sup> | - | 4 <sup>ab</sup> | -  | 4 <sup>ab</sup> | 4 <sup>ab</sup> |
|              | Area involved | B                         | -   | -   | 4         | 4         | 4          | - | 4              | - | 4               | -  | 4               | 4               |
|              | (AxB) x 5     |                           | -   | -   | 60        | 60        | 80         | - | 80             | - | 80              | -  | 80              | 80              |
| Iris         |               | C                         | -   | -   | 2         | 2         | 2          | - | 2 <sup>c</sup> | - | 2 <sup>c</sup>  | -  | 2 <sup>c</sup>  | 2 <sup>c</sup>  |
|              | C x 5         |                           | -   | -   | 10        | 10        | 10         | - | 10             | - | 10              | -  | 10              | 10              |
| Conjunctiva  | Redness       | D                         | -   | -   | 3         | 3         | 3          | - | 3              | - | 2               | -  | 1               | 0               |
|              | Chemosis      | E                         | -   | -   | 4         | 4         | 4          | - | 2              | - | 2               | -  | 2               | 0               |
|              | Discharge     | F                         | -   | -   | 2         | 3         | 2          | - | 2              | - | 2               | -  | 2               | 0               |
|              | (D+E+F) x 2   |                           | -   | -   | 18        | 20        | 18         | - | 14             | - | 12              | -  | 10              | 0               |
| <b>Total</b> |               |                           | -   | -   | <b>88</b> | <b>90</b> | <b>108</b> | - | <b>104</b>     | - | <b>102</b>      | -  | <b>100</b>      | <b>90</b>       |

|              |               | Observation period (days) |     |     |            |            |            |   |                |   |                 |    |                 |                 |
|--------------|---------------|---------------------------|-----|-----|------------|------------|------------|---|----------------|---|-----------------|----|-----------------|-----------------|
| Animal No.   | 3             |                           | 1 h | 4 h | 1          | 2          | 3          | 4 | 7              | 9 | 10              | 12 | 14              | 21              |
| Cornea       | Opacity       | A                         | -   | -   | 4          | 4          | 4          | - | 4 <sup>a</sup> | - | 4 <sup>ab</sup> | -  | 4 <sup>ab</sup> | 4 <sup>ab</sup> |
|              | Area involved | B                         | -   | -   | 4          | 4          | 4          | - | 4              | - | 4               | -  | 4               | 4               |
|              | (AxB) x 5     |                           | -   | -   | 80         | 80         | 80         | - | 80             | - | 80              | -  | 80              | 80              |
| Iris         |               | C                         | -   | -   | 2          | 2          | 2          | - | 2              | - | 2 <sup>c</sup>  | -  | 2 <sup>c</sup>  | 2 <sup>c</sup>  |
|              | C x 5         |                           | -   | -   | 10         | 10         | 10         | - | 10             | - | 10              | -  | 10              | 10              |
| Conjunctiva  | Redness       | D                         | -   | -   | 3          | 3          | 3          | - | 3              | - | 2               | -  | 1               | 1               |
|              | Chemosis      | E                         | -   | -   | 4          | 4          | 4          | - | 3              | - | 2               | -  | 2               | 2               |
|              | Discharge     | F                         | -   | -   | 3          | 2          | 2          | - | 2              | - | 2               | -  | 2               | 2               |
|              | (D+E+F) x 2   |                           | -   | -   | 20         | 18         | 18         | - | 16             | - | 12              | -  | 10              | 10              |
| <b>Total</b> |               |                           | -   | -   | <b>110</b> | <b>108</b> | <b>108</b> | - | <b>106</b>     | - | <b>102</b>      | -  | <b>100</b>      | <b>100</b>      |

**MMAS (Modified Maximum Average Score) (108+108+108) / 3 = 108**

<sup>a</sup> Pannus; <sup>b</sup> Keratoconus

<sup>c</sup> Maximum score assumed for iris (obscured by opacity)

**Cetyl Pyridinium Bromide**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Sigma    | Concentration tested | 0.1 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 140-72-7 | No. of rabbits       | 6      |
| Purity        | 99 %     |                      |        |
| Product No.   | C-5881   |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>5</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**Cetyl Pyridinium Bromide**

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>5</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(2+5+2+0+2+5) / 6 = 2.7$**

**Cetyl Pyridinium Bromide**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Sigma    | Concentration tested | 1.0 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 140-72-7 | No. of rabbits       | 6      |
| Purity        | 99 %     |                      |        |
| Product No.   | C-5881   |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |                |   |                |    |                |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------------|---|----------------|----|----------------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7              | 9 | 10             | 12 | 14             | 21       |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 2 <sup>a</sup> | - | 2 <sup>a</sup> | -  | 2 <sup>a</sup> | 0        |
|              | Area involved | B | -                         | -   | 1         | 1         | 1         | - | 1              | - | 1              | -  | 1              | 0        |
|              | (AxB) x 5     |   | -                         | -   | 10        | 10        | 10        | - | 10             | - | 10             | -  | 10             | 0        |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 1              | - | 1              | -  | 1              | 0        |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 5              | - | 5              | -  | 5              | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2         | - | 1              | - | 1              | -  | 0              | 0        |
|              | Chemosis      | E | -                         | -   | 3         | 3         | 2         | - | 0              | - | 0              | -  | 0              | 0        |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 0              | - | 2              | -  | 0              | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 14        | 12        | - | 2              | - | 6              | -  | 0              | 0        |
| <b>Total</b> |               |   | -                         | -   | <b>31</b> | <b>29</b> | <b>27</b> | - | <b>17</b>      | - | <b>21</b>      | -  | <b>15</b>      | <b>0</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0         | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 0         | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 10        | 0         | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0         | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0         | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2         | - | 1        | - | 1        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 1        | - | 0        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 12        | 10        | - | 4        | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>31</b> | <b>27</b> | <b>10</b> | - | <b>4</b> | - | <b>2</b> | -  | <b>0</b> | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |                |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------------|---|----------|----|----------|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7              | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 2         | 2         | - | 1 <sup>a</sup> | - | 1        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 1         | - | 1              | - | 1        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 10        | 10        | - | 5              | - | 5        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0              | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0              | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2         | - | 1              | - | 1        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 1              | - | 1        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 2         | - | 0              | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 12        | 12        | - | 4              | - | 4        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>28</b> | <b>27</b> | <b>27</b> | - | <b>9</b>       | - | <b>9</b> | -  | <b>0</b> | -  |

**Cetyl Pyridinium Bromide**

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------|----|----------|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 2         | - | 1        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 2         | 2         | 2         | - | 1         | - | 1        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 20        | 20        | 20        | - | 10        | - | 5        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 2         | 2         | 1         | - | 1         | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 10        | 10        | 5         | - | 5         | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2         | - | 1         | - | 1        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 1         | - | 0        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 1         | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 12        | 12        | - | 6         | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>46</b> | <b>42</b> | <b>37</b> | - | <b>21</b> | - | <b>7</b> | -  | <b>0</b> | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 10        | 10        | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0         | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0         | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 1         | - | 1        | - | 1        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 12        | 10        | - | 2        | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>31</b> | <b>27</b> | <b>20</b> | - | <b>2</b> | - | <b>2</b> | -  | <b>0</b> | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 3         | 3         | 3         | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 30        | 30        | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1        | - | 1        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 1        | - | 0        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 12        | 12        | - | 4        | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>49</b> | <b>47</b> | <b>47</b> | - | <b>4</b> | - | <b>2</b> | -  | <b>0</b> | -  |

**MMAS (Modified Maximum Average Score) (31+31+28+46+31+49) / 6 = 36**

<sup>a</sup> Pannus



**Cetyl Pyridinium Bromide**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Sigma    | Concentration tested | 6.0 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 140-72-7 | No. of rabbits       | 4      |
| Purity        | 99 %     |                      |        |
| Product No.   | C-5881   |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |                |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------------|---|----------|----|----------|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7              | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 3         | 3         | - | 2 <sup>a</sup> | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 2              | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 60        | 60        | - | 20             | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 2         | 2         | 2         | - | 1              | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 10        | 10        | 10        | - | 5              | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 3         | - | 2              | - | 1        | -  | 1        | -  |
|              | Chemosis      | E | -                         | -   | 4         | 4         | 4         | - | 2              | - | 2        | -  | 1        | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 3         | - | 2              | - | 1        | -  | 1        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 16        | 20        | - | 12             | - | 8        | -  | 6        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>68</b> | <b>86</b> | <b>90</b> | - | <b>37</b>      | - | <b>8</b> | -  | <b>6</b> | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |                |   |           |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------------|---|-----------|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7              | 9 | 10        | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 3         | - | 3 <sup>a</sup> | - | 1         | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 4              | - | 1         | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 40        | 60        | - | 60             | - | 5         | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 2         | 2         | - | 2              | - | 1         | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 10        | 10        | - | 10             | - | 5         | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 2              | - | 2         | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 4         | 4         | 4         | - | 2              | - | 2         | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 3              | - | 2         | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 16        | 16        | - | 14             | - | 12        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>66</b> | <b>66</b> | <b>86</b> | - | <b>84</b>      | - | <b>22</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |                |   |           |    |           |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------------|---|-----------|----|-----------|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7              | 9 | 10        | 12 | 14        | 21 |
| Cornea       | Opacity       | A | -                         | -   | 3         | 2         | 3         | - | 2 <sup>a</sup> | - | 2         | -  | 1         | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 1              | - | 1         | -  | 1         | -  |
|              | (AxB) x 5     |   | -                         | -   | 60        | 40        | 60        | - | 10             | - | 10        | -  | 5         | -  |
| Iris         |               | C | -                         | -   | 2         | 1         | 1         | - | 1              | - | 1         | -  | 0         | -  |
|              | C x 5         |   | -                         | -   | 10        | 5         | 5         | - | 5              | - | 5         | -  | 0         | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 2              | - | 2         | -  | 1         | -  |
|              | Chemosis      | E | -                         | -   | 4         | 4         | 4         | - | 2              | - | 2         | -  | 1         | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 2         | - | 1              | - | 1         | -  | 1         | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 16        | 16        | - | 10             | - | 10        | -  | 6         | -  |
| <b>Total</b> |               |   | -                         | -   | <b>88</b> | <b>61</b> | <b>81</b> | - | <b>25</b>      | - | <b>25</b> | -  | <b>11</b> | -  |

**Cetyl Pyridinium Bromide**

|              |               |   | Observation period (days) |     |           |           |           |   |                |   |           |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------------|---|-----------|----|----------|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7              | 9 | 10        | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 3         | - | 3 <sup>a</sup> | - | 2         | -  | 1        | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 4              | - | 1         | -  | 1        | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 40        | 60        | - | 60             | - | 10        | -  | 5        | -  |
| Iris         |               | C | -                         | -   | 2         | 2         | 2         | - | 2              | - | 1         | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 10        | 10        | 10        | - | 10             | - | 5         | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 2              | - | 2         | -  | 1        | -  |
|              | Chemosis      | E | -                         | -   | 4         | 4         | 4         | - | 2              | - | 1         | -  | 1        | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 2              | - | 1         | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 16        | 16        | - | 12             | - | 8         | -  | 4        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>66</b> | <b>66</b> | <b>86</b> | - | <b>82</b>      | - | <b>23</b> | -  | <b>9</b> | -  |

**MMAS (Modified Maximum Average Score)  $(90+86+81+86) / 4 = 85.8$**

<sup>a</sup> Pannus

**Cetyl Pyridinium Bromide**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Sigma    | Concentration tested | 10.0 % |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 140-72-7 | No. of rabbits       | 6      |
| Purity        | 99 %     |                      |        |
| Product No.   | C-5881   |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |                 |   |                |    |                 |                 |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------------|---|----------------|----|-----------------|-----------------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7               | 9 | 10             | 12 | 14              | 21              |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 3         | - | 3 <sup>ab</sup> | - | 3 <sup>a</sup> | -  | 3 <sup>ac</sup> | 3 <sup>ac</sup> |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 4               | - | 3              | -  | 3               | 4               |
|              | (AxB) x 5     |   | -                         | -   | 60        | 60        | 60        | - | 60              | - | 60             | -  | 60              | 60              |
| Iris         |               | C | -                         | -   | 2         | 2         | 2         | - | 2               | - | 1              | -  | 1               | 1               |
|              | C x 5         |   | -                         | -   | 10        | 10        | 10        | - | 10              | - | 5              | -  | 5               | 5               |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 2               | - | 2              | -  | 2               | 2               |
|              | Chemosis      | E | -                         | -   | 4         | 4         | 4         | - | 3               | - | 2              | -  | 2               | 2               |
|              | Discharge     | F | -                         | -   | 3         | 3         | 3         | - | 3               | - | 2              | -  | 2               | 2               |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 18        | 18        | - | 16              | - | 12             | -  | 12              | 12              |
| <b>Total</b> |               |   | -                         | -   | <b>88</b> | <b>88</b> | <b>88</b> | - | <b>86</b>       | - | <b>77</b>      | -  | <b>77</b>       | <b>77</b>       |

|              |               |   | Observation period (days) |     |           |            |            |   |                |   |                |    |                 |                 |
|--------------|---------------|---|---------------------------|-----|-----------|------------|------------|---|----------------|---|----------------|----|-----------------|-----------------|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2          | 3          | 4 | 7              | 9 | 10             | 12 | 14              | 21              |
| Cornea       | Opacity       | A | -                         | -   | 3         | 4          | 4          | - | 4 <sup>a</sup> | - | 4 <sup>a</sup> | -  | 4 <sup>ac</sup> | 4 <sup>ac</sup> |
|              | Area involved | B | -                         | -   | 4         | 4          | 4          | - | 4              | - | 4              | -  | 4               | 4               |
|              | (AxB) x 5     |   | -                         | -   | 60        | 80         | 80         | - | 80             | - | 80             | -  | 80              | 80              |
| Iris         |               | C | -                         | -   | 2         | 2          | 2          | - | 2 <sup>d</sup> | - | 2 <sup>d</sup> | -  | 2 <sup>d</sup>  | 1               |
|              | C x 5         |   | -                         | -   | 10        | 10         | 10         | - | 10             | - | 10             | -  | 10              | 5               |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2          | 2          | - | 2              | - | 2              | -  | 2               | 1               |
|              | Chemosis      | E | -                         | -   | 4         | 3          | 3          | - | 2              | - | 2              | -  | 1               | 1               |
|              | Discharge     | F | -                         | -   | 3         | 2          | 2          | - | 2              | - | 2              | -  | 2               | 2               |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 14         | 14         | - | 12             | - | 12             | -  | 10              | 8               |
| <b>Total</b> |               |   | -                         | -   | <b>88</b> | <b>104</b> | <b>104</b> | - | <b>102</b>     | - | <b>102</b>     | -  | <b>100</b>      | <b>93</b>       |

|              |               |   | Observation period (days) |     |           |           |           |   |                |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------------|---|----------|----|----------|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7              | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 3         | 3         | - | 2 <sup>a</sup> | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 1              | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 60        | 60        | - | 10             | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 2         | 2         | 1         | - | 0              | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 10        | 10        | 5         | - | 0              | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1              | - | 1        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 4         | 3         | 2         | - | 0              | - | 0        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 3         | - | 2              | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 14        | 14        | - | 6              | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>68</b> | <b>84</b> | <b>79</b> | - | <b>16</b>      | - | <b>2</b> | -  | <b>0</b> | -  |

**Cetyl Pyridinium Bromide**

|              |               |   | Observation period (days) |     |           |           |           |   |                |   |                |    |                 |                 |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------------|---|----------------|----|-----------------|-----------------|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7              | 9 | 10             | 12 | 14              | 21              |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 3         | - | 4 <sup>a</sup> | - | 4 <sup>a</sup> | -  | 4 <sup>ac</sup> | 4 <sup>ac</sup> |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 4              | - | 4              | -  | 4               | 4               |
|              | (AxB) x 5     |   | -                         | -   | 60        | 60        | 60        | - | 80             | - | 80             | -  | 80              | 80              |
| Iris         |               | C | -                         | -   | 2         | 2         | 2         | - | 2 <sup>d</sup> | - | 2 <sup>d</sup> | -  | 2 <sup>d</sup>  | 1               |
|              | C x 5         |   | -                         | -   | 10        | 10        | 10        | - | 10             | - | 10             | -  | 10              | 5               |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 3         | 3         | - | 3              | - | 2              | -  | 2               | 1               |
|              | Chemosis      | E | -                         | -   | 4         | 3         | 3         | - | 2              | - | 2              | -  | 2               | 1               |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 2              | - | 2              | -  | 2               | 2               |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 16        | 16        | - | 14             | - | 12             | -  | 12              | 8               |
| <b>Total</b> |               |   | -                         | -   | <b>86</b> | <b>86</b> | <b>86</b> | - | <b>104</b>     | - | <b>102</b>     | -  | <b>102</b>      | <b>93</b>       |

|              |               |   | Observation period (days) |     |           |           |           |   |                |   |                |    |                 |                 |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------------|---|----------------|----|-----------------|-----------------|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7              | 9 | 10             | 12 | 14              | 21              |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 3         | - | 3 <sup>a</sup> | - | 3 <sup>a</sup> | -  | 4 <sup>ac</sup> | 4 <sup>ac</sup> |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 4              | - | 4              | -  | 4               | 4               |
|              | (AxB) x 5     |   | -                         | -   | 60        | 60        | 60        | - | 60             | - | 60             | -  | 80              | 80              |
| Iris         |               | C | -                         | -   | 2         | 2         | 2         | - | 2              | - | 2              | -  | 2 <sup>d</sup>  | 1               |
|              | C x 5         |   | -                         | -   | 10        | 10        | 10        | - | 10             | - | 10             | -  | 10              | 5               |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 3 <sup>e</sup> | - | 2 <sup>e</sup> | -  | 2 <sup>e</sup>  | 2 <sup>e</sup>  |
|              | Chemosis      | E | -                         | -   | 4         | 4         | 4         | - | 4              | - | 3              | -  | 3               | 2               |
|              | Discharge     | F | -                         | -   | 3         | 3         | 2         | - | 2              | - | 2              | -  | 2               | 2               |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 18        | 16        | - | 18             | - | 14             | -  | 14              | 12              |
| <b>Total</b> |               |   | -                         | -   | <b>88</b> | <b>88</b> | <b>86</b> | - | <b>88</b>      | - | <b>84</b>      | -  | <b>104</b>      | <b>97</b>       |

|              |               |   | Observation period (days) |     |           |                |           |   |                |   |                |    |                 |                 |
|--------------|---------------|---|---------------------------|-----|-----------|----------------|-----------|---|----------------|---|----------------|----|-----------------|-----------------|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1         | 2              | 3         | 4 | 7              | 9 | 10             | 12 | 14              | 21              |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3              | 3         | - | 3 <sup>a</sup> | - | 3 <sup>a</sup> | -  | 3 <sup>ac</sup> | 3 <sup>ac</sup> |
|              | Area involved | B | -                         | -   | 4         | 4              | 4         | - | 4              | - | 4              | -  | 2               | 1               |
|              | (AxB) x 5     |   | -                         | -   | 60        | 60             | 60        | - | 60             | - | 60             | -  | 30              | 15              |
| Iris         |               | C | -                         | -   | 2         | 2              | 2         | - | 1              | - | 1              | -  | 0               | 0               |
|              | C x 5         |   | -                         | -   | 10        | 10             | 10        | - | 5              | - | 5              | -  | 0               | 0               |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2              | 2         | - | 2              | - | 1              | -  | 1               | 0               |
|              | Chemosis      | E | -                         | -   | 4         | 4              | 3         | - | 2              | - | 2              | -  | 1               | 0               |
|              | Discharge     | F | -                         | -   | 3         | 3 <sup>b</sup> | 3         | - | 2              | - | 2              | -  | 2               | 0               |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 18             | 16        | - | 12             | - | 10             | -  | 8               | 0               |
| <b>Total</b> |               |   | -                         | -   | <b>88</b> | <b>88</b>      | <b>86</b> | - | <b>77</b>      | - | <b>75</b>      | -  | <b>38</b>       | <b>15</b>       |

**MMAS (Modified Maximum Average Score) (88+104+84+86+88+88) / 6 = 89.7**

<sup>a</sup> Pannus

<sup>b</sup> Sanguineous discharge

<sup>c</sup> Keratoconus

<sup>d</sup> Maximum score assumed for iris (obscured by opacity)

<sup>e</sup> Conjunctivae fusing nictitating membrane as it heals

|               |            |                      |        |
|---------------|------------|----------------------|--------|
| Source        | Aldrich    |                      |        |
| Specification |            | Concentration tested | 100 %  |
| CAS No.       | 25322-68-3 | Volume tested        | 0.1 ml |
| Purity        | -          | No. of rabbits       | 6      |

[illegible][illegible][illegible]

**Polyethylene Glycol 400**

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 4             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 5             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>2</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (0+0+0+0+0) / 6 = 0**

**Triton X-100<sup>a</sup>**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Sigma     | Concentration tested | 1.0 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 9002-93-1 | No. of rabbits       | 6      |
| Purity        | 98 %      |                      |        |
| Product No.   | T-6878    |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>6</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**Triton X-100<sup>a</sup>**

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 4        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>4</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(6+0+0+0+4+0) / 6 = 1.7$**

<sup>a</sup> Polyoxyethylene octylphenol



**Polyethylene Glycol 600**

|               |            |                      |        |
|---------------|------------|----------------------|--------|
| Source        | Fisher     | Concentration tested | 100 %  |
| Specification |            | Volume tested        | 0.1 ml |
| CAS No.       | 25322-68-3 | No. of rabbits       | 6      |
| Purity        | -          |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**Polyethylene Glycol 600**

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(2+2+2+2+2) / 6 = 2$**

**Tween 20<sup>a</sup>**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Sigma     | Concentration tested | 100 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 9005-64-5 | No. of rabbits       | 4      |
| Purity        | 98 %      |                      |        |
| Product No.   | P-1379    |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6        | 2        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>6</b> | <b>2</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 2        | 2        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>2</b> | <b>2</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**Tween 20<sup>a</sup>**

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2        | 1        | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6        | 2        | 0        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>6</b> | <b>2</b> | <b>0</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (6+2+2+6) / 4 = 4**

<sup>a</sup> Sorbitanpolyoxyethylene monolaurate

**Triton X-100<sup>a</sup> [1 x]<sup>b</sup>**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Sigma     | Concentration tested | 5.0 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 9002-93-1 | No. of rabbits       | 6      |
| Purity        | 98 %      |                      |        |
| Product No.   | T-6878    |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |          |          |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|----------|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9        | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 1         | - | 0        | 0        | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 3         | 2         | 1         | - | 0        | 0        | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 20        | 5         | - | 0        | 0        | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0         | - | 0        | 0        | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0         | - | 0        | 0        | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 2         | - | 1        | 0        | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 1        | 0        | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 2         | 0         | - | 0        | 0        | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 14        | 8         | - | 4        | 0        | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>47</b> | <b>39</b> | <b>13</b> | - | <b>4</b> | <b>0</b> | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 2         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 20        | 10        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 8         | 6        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>41</b> | <b>23</b> | <b>6</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 3         | 3         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 15        | 30        | 10        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 12        | 8         | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>27</b> | <b>42</b> | <b>18</b> | - | <b>0</b> | - | -  | -  | -  | -  |

**Triton X-100<sup>a</sup> [1 x]<sup>b</sup>**

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 5         | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 6         | 6        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>15</b> | <b>11</b> | <b>6</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 5         | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 8         | 6        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>15</b> | <b>13</b> | <b>6</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |          |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|----------|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9        | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0        | - | 0        | 0        | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 3         | 1         | 0        | - | 0        | 0        | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 10        | 0        | - | 0        | 0        | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0        | - | 0        | 0        | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0        | - | 0        | 0        | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 1        | - | 0        | 0        | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2        | - | 1        | 0        | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 1         | 0        | - | 0        | 0        | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 10        | 6        | - | 2        | 0        | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>49</b> | <b>25</b> | <b>6</b> | - | <b>2</b> | <b>0</b> | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (47+41+27+15+15+49) / 6 = 32.3**

<sup>a</sup> Polyoxyethylene octylphenol

<sup>b</sup> The same sample of the chemical was retested [1 x] in the same laboratory

**Triton X-100<sup>a</sup> [2 x]<sup>b</sup>**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Sigma     | Concentration tested | 5.0 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 9002-93-1 | No. of rabbits       | 6      |
| Purity        | 98 %      |                      |        |
| Product No.   | T-6878    |                      |        |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 5         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 8         | 4        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>27</b> | <b>13</b> | <b>4</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 20        | 5         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2        | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 8         | 6        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>35</b> | <b>13</b> | <b>6</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 3         | 2         | 1         | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 20        | 5         | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0         | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2         | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 1        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 1         | 0         | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 10        | 8         | - | 2        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>47</b> | <b>30</b> | <b>13</b> | - | <b>2</b> | - | -  | -  | -  | -  |

**Triton X-100<sup>a</sup> [2 x]<sup>b</sup>**

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 3         | 2         | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 20        | 5        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 10        | 4        | - | 0        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>47</b> | <b>30</b> | <b>9</b> | - | <b>0</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 20        | 5         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 12        | 4        | - | 4        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>34</b> | <b>17</b> | <b>4</b> | - | <b>4</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 5         | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1         | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1         | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 8         | 6        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>13</b> | <b>6</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (27+35+47+47+34+13) / 6 = 33.8**

<sup>a</sup> Polyoxyethylene octylphenol

<sup>b</sup> The same sample of the chemical was retested [2 x] in the same laboratory



**Triton X-100<sup>a</sup>**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Sigma     | Concentration tested | 10.0 % |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 9002-93-1 | No. of rabbits       | 6      |
| Purity        | 98 %      |                      |        |
| Product No.   | T-6878    |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |                |    |                |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------------|----|----------------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10             | 12 | 14             | 21       |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 2         | - | 2 <sup>b</sup> | -  | 2 <sup>b</sup> | 0        |
|              | Area involved | B | -                         | -   | 4         | 3         | 3         | - | 1         | - | 1              | -  | 1              | 0        |
|              | (AxB) x 5     |   | -                         | -   | 40        | 30        | 30        | - | 10        | - | 10             | -  | 10             | 0        |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 1         | - | 0              | -  | 0              | 0        |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 5         | - | 0              | -  | 0              | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1         | - | 1              | -  | 1              | 1        |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 1         | - | 0              | -  | 0              | 0        |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 2         | - | 2              | -  | 1              | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 12        | 12        | - | 8         | - | 6              | -  | 4              | 2        |
| <b>Total</b> |               |   | -                         | -   | <b>57</b> | <b>47</b> | <b>47</b> | - | <b>23</b> | - | <b>16</b>      | -  | <b>14</b>      | <b>2</b> |

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 3         | 3         | - | 2         | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 1         | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 60        | 60        | - | 10        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 2         | - | 0         | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 10        | - | 0         | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1         | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 1         | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 2         | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 12        | 12        | - | 8         | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>57</b> | <b>77</b> | <b>82</b> | - | <b>18</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |                |   |           |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------------|---|-----------|---|----------|----|----------|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3              | 4 | 7         | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 3         | 3              | - | 1         | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 3              | - | 1         | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 60        | 45             | - | 5         | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 2         | 2         | 2              | - | 0         | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 10        | 10        | 10             | - | 0         | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2              | - | 1         | - | 1        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2              | - | 0         | - | 0        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 2 <sup>c</sup> | - |           | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 12        | 12             | - | 6         | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>64</b> | <b>82</b> | <b>67</b>      | - | <b>11</b> | - | <b>2</b> | -  | <b>0</b> | -  |

**Triton X-100<sup>a</sup>**

|              |               |   | Observation period (days) |     |           |           |           |   |           |   |                |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|-----------|---|----------------|----|----------|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7         | 9 | 10             | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 3         | 3         | - | 3         | - | 2 <sup>b</sup> | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 4         | 4         | 4         | - | 1         | - | 1              | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 60        | 60        | - | 15        | - | 10             | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 1         | - | 0              | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 5         | - | 0              | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1         | - | 1              | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 2         | - | 1              | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 2         | - | 1              | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 12        | 12        | - | 10        | - | 6              | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>57</b> | <b>77</b> | <b>77</b> | - | <b>30</b> | - | <b>16</b>      | -  | <b>0</b> | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 3         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 4         | 3         | 3         | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 45        | 30        | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1        | - | 1        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 12        | 12        | - | 2        | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>57</b> | <b>62</b> | <b>47</b> | - | <b>2</b> | - | <b>2</b> | -  | <b>0</b> | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 3         | 3         | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 4         | 3         | 3         | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 40        | 45        | 45        | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 10        | 10        | 5         | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1        | - | 1        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 12        | 12        | - | 2        | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>62</b> | <b>67</b> | <b>62</b> | - | <b>2</b> | - | <b>2</b> | -  | <b>0</b> | -  |

**MMAS (Modified Maximum Average Score) (47+77+82+77+62+67) / 6 = 68.7**

<sup>a</sup> Polyoxyethylene octylphenol

<sup>b</sup> Pannus

<sup>c</sup> Sanguineous discharge

**Igepon AC-78<sup>a</sup>**

|               |                 |                      |        |
|---------------|-----------------|----------------------|--------|
| Source        | GAF Corporation | Concentration tested | 0.5 %  |
| Specification |                 | Volume tested        | 0.1 ml |
| CAS No.       | 58969-27-0      | No. of rabbits       | 6      |
| Purity        | -               |                      |        |
| Product No.   | A-028           |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>6</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 4        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>4</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**Igepon AC-78<sup>a</sup>**

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 2        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>2</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 1        | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 1        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 1        | 0        | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 6        | 4        | 2        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>6</b> | <b>4</b> | <b>2</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 4        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>4</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(6+0+4+2+6+4) / 6 = 3.7$**

<sup>a</sup> CN-oil acid ester of sodium isethionate

**Igepon AC-78<sup>a</sup>**

|               |                 |                      |        |
|---------------|-----------------|----------------------|--------|
| Source        | GAF Corporation | Concentration tested | 10.0 % |
| Specification |                 | Volume tested        | 0.1 ml |
| CAS No.       | 58969-27-0      | No. of rabbits       | 6      |
| Purity        | -               |                      |        |
| Product No.   | A-028           |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 2         | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 20        | 20        | 10        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 0         | 1         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 0         | 5         | 0         | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1         | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 1         | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 2         | 0         | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 12        | 4         | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>36</b> | <b>37</b> | <b>14</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 20        | 10        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 2         | 1         | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 10        | 5         | 5        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 1        | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 3         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 10        | 4        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>44</b> | <b>25</b> | <b>9</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 5         | 0        | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0        | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1         | 1        | - | 1        | - | 1        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 6         | 2        | - | 2        | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>27</b> | <b>11</b> | <b>2</b> | - | <b>2</b> | - | <b>2</b> | -  | <b>0</b> | -  |

**Igepon AC-78<sup>a</sup>**

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----|----|----|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | -                         | -   | 2         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 20        | 10        | 0        | - | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0        | - | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 1         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 1        | - | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 1         | 0        | - | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 8         | 4        | - | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>37</b> | <b>18</b> | <b>4</b> | - | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Area involved | B | -                         | -   | 1         | 1         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 10        | 0        | - | 0        | - | 0        | -  | -  | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0        | - | 0        | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 1        | - | 1        | - | 0        | -  | -  | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 0        | - | 0        | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 12        | 2        | - | 2        | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   | -                         | -   | <b>29</b> | <b>22</b> | <b>2</b> | - | <b>2</b> | - | <b>0</b> | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |          |          |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----------|----------|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14       | 21       |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 0        | - | 0        | - | 0        | -  | 0        | 0        |
|              | Area involved | B | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | 0        | 0        |
|              | (AxB) x 5     |   | -                         | -   | 20        | 10        | 0        | - | 0        | - | 0        | -  | 0        | 0        |
| Iris         |               | C | -                         | -   | 2         | 2         | 0        | - | 0        | - | 0        | -  | 0        | 0        |
|              | C x 5         |   | -                         | -   | 10        | 10        | 0        | - | 0        | - | 0        | -  | 0        | 0        |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 1        | - | 1        | - | 1        | -  | 1        | 1        |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 1        | - | 0        | - | 0        | -  | 0        | 0        |
|              | Discharge     | F | -                         | -   | 3         | 2         | 1        | - | 0        | - | 0        | -  | 0        | 0        |
|              | (D+E+F) x 2   |   | -                         | -   | 18        | 12        | 6        | - | 2        | - | 2        | -  | 2        | 2        |
| <b>Total</b> |               |   | -                         | -   | <b>48</b> | <b>32</b> | <b>6</b> | - | <b>2</b> | - | <b>2</b> | -  | <b>2</b> | <b>2</b> |

**MMAS (Modified Maximum Average Score) (36+44+27+37+29+48) / 6 = 36.8**

<sup>a</sup> CN-oil acid ester of sodium isethionate

**Igepon AC-78<sup>a</sup>**

|               |                 |                      |        |
|---------------|-----------------|----------------------|--------|
| Source        | GAF Corporation | Concentration tested | 5.0 %  |
| Specification |                 | Volume tested        | 0.1 ml |
| CAS No.       | 58969-27-0      | No. of rabbits       | 6      |
| Purity        | -               |                      |        |
| Product No.   | A-028           |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 3         | 2         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 3         | 1         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 45        | 10        | 5         | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 0         | 0         | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 0         | 0         | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 2         | - | 1        | - | 0        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 1        | - | 1        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 2         | 1         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 12        | 10        | - | 4        | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>66</b> | <b>22</b> | <b>15</b> | - | <b>4</b> | - | <b>2</b> | -  | <b>0</b> | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 3         | 2         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 3         | 3         | 2         | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 45        | 30        | 10        | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 2         | - | 1        | - | 1        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 3         | 2         | 2         | - | 1        | - | 1        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 2         | 2         | 0         | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 16        | 14        | 8         | - | 4        | - | 4        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>66</b> | <b>49</b> | <b>23</b> | - | <b>4</b> | - | <b>4</b> | -  | <b>0</b> | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 3         | 2         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 2         | 1         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 10        | 5         | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0         | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0         | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 2         | - | 1        | - | 0        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 1        | - | 1        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 2         | 0         | 0         | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 8         | 8         | - | 4        | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>47</b> | <b>23</b> | <b>13</b> | - | <b>4</b> | - | <b>2</b> | -  | <b>0</b> | -  |

**Igepon AC-78<sup>a</sup>**

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 4             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 3         | 3         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 3         | 3         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 45        | 45        | 5         | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 5         | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 3         | 2         | - | 1        | - | 0        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 2        | - | 1        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 1         | 0         | 0         | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 12        | 10        | 8         | - | 6        | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>62</b> | <b>60</b> | <b>18</b> | - | <b>6</b> | - | <b>2</b> | -  | <b>0</b> | -  |

|              |               |   | Observation period (days) |     |           |           |          |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 5             |   | 1 h                       | 4 h | 1         | 2         | 3        | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 1         | 1         | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 2         | 1         | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 10        | 5         | 0        | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 0         | 0         | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 0         | 0         | 0        | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 2         | 2         | 1        | - | 0        | - | 0        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2        | - | 1        | - | 1        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 1         | 0         | 0        | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 10        | 8         | 6        | - | 2        | - | 2        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>20</b> | <b>13</b> | <b>6</b> | - | <b>2</b> | - | <b>2</b> | -  | <b>0</b> | -  |

|              |               |   | Observation period (days) |     |           |           |           |   |          |   |          |    |          |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|---|----------|---|----------|----|----------|----|
| Animal No.   | 6             |   | 1 h                       | 4 h | 1         | 2         | 3         | 4 | 7        | 9 | 10       | 12 | 14       | 21 |
| Cornea       | Opacity       | A | -                         | -   | 2         | 2         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | Area involved | B | -                         | -   | 3         | 1         | 1         | - | 0        | - | 0        | -  | 0        | -  |
|              | (AxB) x 5     |   | -                         | -   | 30        | 10        | 5         | - | 0        | - | 0        | -  | 0        | -  |
| Iris         |               | C | -                         | -   | 1         | 1         | 0         | - | 0        | - | 0        | -  | 0        | -  |
|              | C x 5         |   | -                         | -   | 5         | 5         | 0         | - | 0        | - | 0        | -  | 0        | -  |
| Conjunctiva  | Redness       | D | -                         | -   | 3         | 2         | 2         | - | 1        | - | 2        | -  | 0        | -  |
|              | Chemosis      | E | -                         | -   | 2         | 2         | 2         | - | 1        | - | 1        | -  | 0        | -  |
|              | Discharge     | F | -                         | -   | 2         | 0         | 0         | - | 0        | - | 0        | -  | 0        | -  |
|              | (D+E+F) x 2   |   | -                         | -   | 14        | 8         | 8         | - | 4        | - | 6        | -  | 0        | -  |
| <b>Total</b> |               |   | -                         | -   | <b>49</b> | <b>23</b> | <b>13</b> | - | <b>4</b> | - | <b>6</b> | -  | <b>0</b> | -  |

**MMAS (Modified Maximum Average Score) (66+66+47+62+20+49) / 6 = 51.7**

<sup>a</sup> CN-oil acid ester of sodium isethionate



**\*2-(*n*-Dodecylthio)ethanol**

|               |             |                      |        |
|---------------|-------------|----------------------|--------|
| Source        | Elf Atochem | Concentration tested | 100 %  |
| Specification |             | Weight tested        | 100 mg |
| CAS No.       | 1462-55-1   | No. of rabbits       | 3      |
| Purity        | > 99 %      |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>0</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>0</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>0</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(0 + 0 + 0) / 3 = 0$

**\*2-Ethylhexylthioglycolate**

|               |             |                      |        |
|---------------|-------------|----------------------|--------|
| Source        | Elf Atochem | Concentration tested | 100 %  |
| Specification |             | Volume tested        | 0.1 ml |
| CAS No.       | 7659-86-12  | No. of rabbits       | 3      |
| Purity        | 99.4 %      |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>0</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>0</b>                  | <b>-</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score)  $(0 + 0 + 0) / 3 = 0$**

<sup>a</sup> Evaluation obscured by residual test substance

**\*p-Methylthiobenzaldehyde**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Fluka     | Concentration tested | 100 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 3446-89-7 | No. of rabbits       | 3      |
| Purity        | 98.2 %    |                      |        |
| Product No.   | 69327     |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 4        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (0 + 0 + 0) / 3 = 0**

<sup>a</sup> Evaluation obscured by residual test substance

**\*iso-Octylthioglycolate**

|               |             |                      |        |
|---------------|-------------|----------------------|--------|
| Source        | Elf Atochem | Concentration tested | 100 %  |
| Specification |             | Volume tested        | 0.1 ml |
| CAS No.       | 25103-09-7  | No. of rabbits       | 3      |
| Purity        | 99.0 %      |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 2        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>2</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(2+0+0) / 3 = 0.7$**

<sup>a</sup> Evaluation obscured by residual test substance

**\*Di-n-propyl Disulphide**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 629-19-6 | No. of rabbits       | 3      |
| Purity        | 99.2 %   |                      |        |
| Product No.   | 43550    |                      |        |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1 | 2 | 3 | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 1 | 1 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 1                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 2 | 2 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 2 | 2 | 0 | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 1        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 4                         | -        | 2        | 2        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>4</b>                  | <b>-</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(0+2+2) / 3 = 1.3$

<sup>a</sup> Evaluation obscured by residual test substance

**\*Thiodiglycol**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Fluka    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 111-48-8 | No. of rabbits       | 3      |
| Purity        | 99.8 %   |                      |        |
| Product No.   | 88559    |                      |        |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0         | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0         | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 0                         | -   | 1         | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 1         | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 3         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 10        | 4        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>10</b> | <b>4</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 4 | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 2        | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | -   | 1        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 6        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>6</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (0+10+6) / 3 = 5.3**

<sup>a</sup> Evaluation obscured by residual test substance

**\*1,2,3-Trimercaptopropane**

|               |             |                      |        |
|---------------|-------------|----------------------|--------|
| Source        | Elf Atochem | Concentration tested | 100 %  |
| Specification |             | Volume tested        | 0.1 ml |
| CAS No.       | 4756-13-2   | No. of rabbits       | 3      |
| Purity        | 98 %        |                      |        |

|              |               |   | Observation period (days) |     |    |                |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----|----------------|---|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1  | 2              | 3 | 5 | 6 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0  | 0              | 0 | 0 |   | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0  | 0              | 0 | 0 |   | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0  | 0              | 0 | 0 |   | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0  | 0              | 0 | 0 |   | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0  | 0              | 0 | 0 | 0 | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 3  | 2              | 1 |   |   | - | -  | -  | -  | -  |
|              | Chemosis      | E | 3                         | -   | 3  | 2              | 1 |   |   | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0  | 3 <sup>b</sup> | 0 |   |   | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 12 | 14             | 4 |   |   | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 12 | 14             | 4 |   |   | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |    |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----|---|---|---|---|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1  | 2 | 3 | 5 | 6 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0  | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0  | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0  | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0  | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0  | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 2  | 2 | 1 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 3                         | -   | 3  | 2 | 1 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0  | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 10 | 8 | 4 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 10 | 4 | 4 | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |   |   |   |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|---|---|---|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1 | 2 | 3 | 5 | 6 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 2                         | -   | 1 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 3                         | -   | 1 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 0 | 0 | 0 | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 4 | 0 | 0 | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | 4 | 0 | 0 | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(12+10+4) / 3 = 8.7$**

<sup>a</sup> Evaluation obscured by residual test substance; <sup>b</sup> White purulent discharge; score of 3 assigned

**\*Ethyl Thioglycolate**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Sigma    | Concentration tested | 100 %  |
| Specification |          | Volume tested        | 0.1 ml |
| CAS No.       | 623-51-8 | No. of rabbits       | 3      |
| Purity        | 99.1 %   |                      |        |
| Product No.   | T7771    |                      |        |

|              |               |   | Observation period (days) |     |           |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2        | 3        | 5 | 6 | 7 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 1         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 2         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 10        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 1         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 5         | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 2         | 1        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 2         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 1         | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 10        | 2        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>25</b> | <b>2</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |                |           |           |           |          |          |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------------|-----------|-----------|-----------|----------|----------|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1              | 2         | 3         | 5         | 6        | 7        | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 2                         | -   | 2              | 3         | 3         | 2         | 0        | 0        | -  | -  | -  | -  |
|              | Area involved | B | 4                         | -   | 3              | 1         | 1         | 1         | 0        | 0        | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 40                        | -   | 30             | 15        | 15        | 10        | 0        | 0        | -  | -  | -  | -  |
| Iris         |               | C | 1                         | -   | 1              | 1         | 1         | 1         | 1        | 0        | -  | -  | -  | -  |
|              | C x 5         |   | 5                         | -   | 5              | 5         | 5         | 5         | 5        | 0        | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 3              | 3         | 2         | 1         | 1        | 0        | -  | -  | -  | -  |
|              | Chemosis      | E | 3                         | -   | 2              | 2         | 1         | 0         | 0        | 0        | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 2 <sup>b</sup> | 1         | 0         | 0         | 0        | 0        | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 14             | 12        | 6         | 2         | 2        | 0        | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>49</b>      | <b>32</b> | <b>26</b> | <b>17</b> | <b>7</b> | <b>0</b> | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |          |          |          |   |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|----------|----------|----------|---|---|---|----|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1        | 2        | 3        | 5 | 6 | 7 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | Discharge     | F | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 0                         | -   | 0        | 0        | 0        | - | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   | <b>0</b>                  | -   | <b>0</b> | <b>0</b> | <b>0</b> | - | - | - | -  | -  | -  | -  |

**MMAS (Modified Maximum Average Score)  $(49+25+0) / 3 = 24.7$**

<sup>a</sup> Evaluation obscured by residual test substance; <sup>b</sup> White purulent discharge; score of 2 assigned



**\*3,3'-Dithiopropionic Acid**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Fluka     | Concentration tested | 100 %  |
| Specification |           | Weight tested        | 100 mg |
| CAS No.       | 1119-62-6 | No. of rabbits       | 3      |
| Purity        | 99 %      |                      |        |
| Product No.   | 43788P    |                      |        |

|              |               |   | Observation period (days) |     |           |           |           |           |          |          |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|-----------|----------|----------|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3         | 5         | 7        | 8        | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | - <sup>a</sup>            | -   | 1         | 1         | 1         | 1         | 1        | 0        | -  | -  | -  | -  |
|              | Area involved | B | - <sup>a</sup>            | -   | 3         | 3         | 2         | 2         | 1        | 0        | -  | -  | -  | -  |
|              | (AxB) x 5     |   |                           | -   | 15        | 15        | 10        | 10        | 5        | 0        | -  | -  | -  | -  |
| Iris         |               | C | - <sup>a</sup>            | -   | 1         | 0         | 0         | 0         | 0        | 0        | -  | -  | -  | -  |
|              | C x 5         |   |                           | -   | 5         | 0         | 0         | 0         | 0        | 0        | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 1         | 2         | 2         | 2         | 0        | 0        | -  | -  | -  | -  |
|              | Chemosis      | E | 4                         | -   | 3         | 1         | 1         | 1         | 0        | 0        | -  | -  | -  | -  |
|              | Discharge     | F | 1                         | -   | 1         | 0         | 0         | 0         | 0        | 0        | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   | 12                        | -   | 10        | 6         | 6         | 6         | 0        | 0        | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>30</b> | <b>21</b> | <b>16</b> | <b>16</b> | <b>5</b> | <b>0</b> | -  | -  | -  | -  |

|              |               |   | Observation period (days) |          |           |           |           |           |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 5         | 7        | 8        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 1         | 1         | 1         | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 3                         | -        | 4         | 3         | 1         | 1         | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 15                        | -        | 20        | 15        | 5         | 5         | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 1         | 0         | 0         | 0         | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 5         | 0         | 0         | 0         | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 2         | 2         | 2         | 2         | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 3                         | -        | 3         | 2         | 1         | 1         | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 1                         | -        | 1         | 1         | 0         | 0         | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 12        | 10        | 6         | 6         | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>25</b>                 | <b>-</b> | <b>37</b> | <b>25</b> | <b>11</b> | <b>11</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3        | 5        | 7        | 8        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 1         | 1        | 1        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 4                         | -        | 4         | 2         | 1        | 1        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 20                        | -        | 20        | 10        | 5        | 5        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 2         | 1         | 1        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 3                         | -        | 2         | 1         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 0         | 0         | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 12                        | -        | 8         | 4         | 2        | 0        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>32</b>                 | <b>-</b> | <b>28</b> | <b>14</b> | <b>7</b> | <b>5</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (30+37+28) / 3 = 31.7**

<sup>a</sup> Evaluation obscured by chemosis

**\*Methylthioglycolate**

|               |             |                      |        |
|---------------|-------------|----------------------|--------|
| Source        | Elf Atochem | Concentration tested | 100 %  |
| Specification |             | Volume tested        | 0.1 ml |
| CAS No.       | 2365-48-2   | No. of rabbits       | 3      |
| Purity        | 99.7 %      |                      |        |

|              |               |   | Observation period (days) |     |           |           |          |          |   |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|----------|----------|---|---|----|----|----|----|
| Animal No.   | 1             |   | 1 h                       | 4 h | 1         | 2         | 3        | 6        | 7 | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 3                         | -   | 2         | 2         | 0        | 0        | - | - | -  | -  | -  | -  |
|              | Area involved | B | 1                         | -   | 2         | 1         | 0        | 0        | - | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 15                        | -   | 20        | 10        | 0        | 0        | - | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 1         | 1         | 1        | 0        | - | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 5         | 5         | 5        | 0        | - | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 3         | 2         | 1        | 0        | - | - | -  | -  | -  | -  |
|              | Chemosis      | E | 3                         | -   | 3         | 2         | 0        | 0        | - | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 2         | 1         | 0        | 0        | - | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 16        | 10        | 2        | 0        | - | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>41</b> | <b>25</b> | <b>7</b> | <b>0</b> | - | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |           |           |          |          |   |    |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|-----------|-----------|----------|----------|---|----|----|----|----|
| Animal No.   | 2             |   | 1 h                       | 4 h | 1         | 2         | 3         | 6        | 7        | 9 | 10 | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 0                         | -   | 2         | 3         | 2         | 1        | 0        | - | -  | -  | -  | -  |
|              | Area involved | B | 0                         | -   | 4         | 2         | 1         | 1        | 0        | - | -  | -  | -  | -  |
|              | (AxB) x 5     |   | 0                         | -   | 40        | 30        | 10        | 5        | 0        | - | -  | -  | -  | -  |
| Iris         |               | C | 0                         | -   | 1         | 1         | 0         | 0        | 0        | - | -  | -  | -  | -  |
|              | C x 5         |   | 0                         | -   | 5         | 5         | 0         | 0        | 0        | - | -  | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 3         | 3         | 1         | 1        | 0        | - | -  | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 2         | 2         | 1         | 0        | 0        | - | -  | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 2         | 1         | 0         | 0        | 0        | - | -  | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 14        | 12        | 4         | 2        | 0        | - | -  | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>59</b> | <b>47</b> | <b>14</b> | <b>7</b> | <b>0</b> | - | -  | -  | -  | -  |

|              |               |   | Observation period (days) |     |           |                |                |           |           |   |          |    |    |    |
|--------------|---------------|---|---------------------------|-----|-----------|----------------|----------------|-----------|-----------|---|----------|----|----|----|
| Animal No.   | 3             |   | 1 h                       | 4 h | 1         | 2              | 3              | 6         | 7         | 9 | 10       | 12 | 14 | 21 |
| Cornea       | Opacity       | A | 4                         | -   | 4         | 3              | 2              | 1         | 1         | - | 0        | -  | -  | -  |
|              | Area involved | B | 1                         | -   | 2         | 2              | 3              | 3         | 2         | - | 0        | -  | -  | -  |
|              | (AxB) x 5     |   | 20                        | -   | 40        | 30             | 30             | 15        | 10        | - | 0        | -  | -  | -  |
| Iris         |               | C | 1                         | -   | 1         | 1              | 1              | 1         | 1         | - | 0        | -  | -  | -  |
|              | C x 5         |   | 5                         | -   | 5         | 5              | 5              | 5         | 5         | - | 0        | -  | -  | -  |
| Conjunctiva  | Redness       | D | 1                         | -   | 3         | 3              | 3              | 2         | 2         | - | 0        | -  | -  | -  |
|              | Chemosis      | E | 2                         | -   | 2         | 2              | 2              | 2         | 1         | - | 0        | -  | -  | -  |
|              | Discharge     | F | - <sup>a</sup>            | -   | 2         | 2 <sup>t</sup> | 2 <sup>b</sup> | 0         | 0         | - | 0        | -  | -  | -  |
|              | (D+E+F) x 2   |   |                           | -   | 14        | 14             | 14             | 8         | 6         | - | 0        | -  | -  | -  |
| <b>Total</b> |               |   |                           | -   | <b>59</b> | <b>49</b>      | <b>49</b>      | <b>28</b> | <b>21</b> | - | <b>0</b> | -  | -  | -  |

**MMAS (Modified Maximum Average Score) (59+59+41) / 3 = 53.0**

<sup>a</sup> Evaluation obscured by residual test substance; <sup>b</sup> White purulent discharge; score of 2 assigned

**\*Calcium Sulphhydrate Solution**

|               |             |                      |               |
|---------------|-------------|----------------------|---------------|
| Source        | Elf Atochem | Concentration tested | 20 % in water |
| Specification |             | Volume tested        | 0.1 ml        |
| CAS No.       | 12133-28-7  | No. of rabbits       | 1             |
| Purity        | -           |                      |               |

|              |               | Observation period (days) |                |     |                |                |           |   |           |   |    |    |           |          |
|--------------|---------------|---------------------------|----------------|-----|----------------|----------------|-----------|---|-----------|---|----|----|-----------|----------|
| Animal No.   | 1             |                           | 1 h            | 4 h | 1              | 2              | 3         | 4 | 7         | 9 | 10 | 12 | 14        | 21       |
| Cornea       | Opacity       | A                         | 0              | -   | 2              | 2              | 2         | - | 1         | - | -  | -  | 1         | 1        |
|              | Area involved | B                         | 0              | -   | 3              | 3              | 3         | - | 2         | - | -  | -  | 2         | 1        |
|              | (AxB) x 5     |                           | 0              | -   | 30             | 30             | 30        | - | 10        | - | -  | -  | 10        | 5        |
| Iris         |               | C                         | 0              | -   | 1              | 1              | 1         | - | 1         | - | -  | -  | 0         | 0        |
|              | C x 5         |                           | 0              | -   | 5              | 5              | 5         | - | 5         | - | -  | -  | 0         | 0        |
| Conjunctiva  | Redness       | D                         | 1              | -   | 3              | 3              | 3         | - | 3         | - | -  | -  | 2         | 0        |
|              | Chemosis      | E                         | 2              | -   | 4              | 4              | 4         | - | 3         | - | -  | -  | 3         | 1        |
|              | Discharge     | F                         | - <sup>a</sup> | -   | 3 <sup>b</sup> | 3 <sup>b</sup> | 3         | - | 2         | - | -  | -  | 1         | 0        |
|              | (D+E+F) x 2   |                           |                | -   | 20             | 20             | 20        | - | 16        | - | -  | -  | 12        | 2        |
| <b>Total</b> |               |                           |                | -   | <b>55</b>      | <b>55</b>      | <b>55</b> | - | <b>31</b> | - | -  | -  | <b>22</b> | <b>7</b> |

**MMAS (Modified Maximum Average Score) = 55**<sup>a</sup> Evaluation obscured by residual test substance<sup>b</sup> White purulent discharge; score of 3 assigned

**\*Glycerol Tri-iso-stearate**

|               |                        |                      |        |
|---------------|------------------------|----------------------|--------|
| Source        | Unichema International | Concentration tested | 100 %  |
| Specification |                        | Volume tested        | 0.1 ml |
| CAS No.       | 26492-95-5             | No. of rabbits       | 3      |
| Purity        | -                      |                      |        |
| Trade Name    | Estol 2041             |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 0                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 0        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 6                         | -        | 2        | 0        | 0        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>6</b>                  | <b>-</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(2+2+2) / 3 = 2$

**N,N-Dimethyl Guanidine Sulphate**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Sigma    | Concentration tested | 100 %  |
| Specification |          | Weight tested        | 100 mg |
| CAS No.       | 598-65-2 | No. of rabbits       | 3      |
| Purity        | > 95 %   |                      |        |
| Product No.   | D3029    |                      |        |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1        | 2        | 1        | 1        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 2        | 4        | 2        | 2        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>-</b> | <b>2</b> | <b>4</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0         | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0         | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0         | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0         | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0         | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 2         | 2        | 2        | 1        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 1         | 1        | 1        | 1        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 3         | 1        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 12        | 8        | 6        | 4        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>10</b>                 | <b>-</b> | <b>12</b> | <b>8</b> | <b>6</b> | <b>4</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |          |          |          |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1        | 2        | 3        | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Area involved | B | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Iris         |               | C | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 0                         | -        | 0        | 0        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 1        | 2        | 2        | 2        | 0        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 1                         | -        | 0        | 1        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 0        | 1        | 0        | 0        | 0        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 12                        | -        | 2        | 8        | 4        | 4        | 0        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>12</b>                 | <b>-</b> | <b>2</b> | <b>8</b> | <b>4</b> | <b>4</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

MMAS (Modified Maximum Average Score)  $(4+8+8) = 6.7$

**\*γ-Butyrolactone**

|               |           |                      |        |
|---------------|-----------|----------------------|--------|
| Source        | Aldrich   | Concentration tested | 100 %  |
| Specification |           | Volume tested        | 0.1 ml |
| CAS No.       | 96-48-0   | No. of rabbits       | 3      |
| Purity        | > 99 %    |                      |        |
| Product No.   | B10,360-8 |                      |        |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 1         | 2         | 2         | 1        | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 4                         | -        | 2         | 2         | 1         | 1        | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 20                        | -        | 10        | 20        | 10        | 5        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 0                         | -        | 1         | 1         | 1         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 0                         | -        | 5         | 5         | 5         | 0        | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 2         | 3         | 2         | 1        | 0        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 2                         | -        | 2         | 3         | 2         | 1        | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 2                         | -        | 2         | 2         | 0         | 0        | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 10                        | -        | 12        | 16        | 8         | 4        | 0        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>30</b>                 | <b>-</b> | <b>27</b> | <b>41</b> | <b>23</b> | <b>9</b> | <b>0</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 2         | 2         | 2         | 2         | 0        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 4                         | -        | 3         | 1         | 1         | 1         | 0        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 20                        | -        | 30        | 10        | 10        | 10        | 0        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 0         | 0         | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 0         | 0         | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 2         | 2         | 2         | 1        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 3                         | -        | 2         | 2         | 2         | 1         | 0        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 2                         | -        | 2         | 2         | 0         | 0         | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 14                        | -        | 12        | 12        | 8         | 6         | 2        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>39</b>                 | <b>-</b> | <b>47</b> | <b>27</b> | <b>18</b> | <b>16</b> | <b>2</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 1                         | -        | 2         | 2         | 2         | 2         | 1        | -        | -        | -        | 0        | -        |
|              | Area involved | B | 4                         | -        | 4         | 4         | 2         | 1         | 1        | -        | -        | -        | 0        | -        |
|              | (AxB) x 5     |   | 20                        | -        | 40        | 40        | 20        | 10        | 5        | -        | -        | -        | 0        | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 0         | 0         | 0        | -        | -        | -        | 0        | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 0         | 0         | 0        | -        | -        | -        | 0        | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 2         | 3         | 2         | 2         | 0        | -        | -        | -        | 0        | -        |
|              | Chemosis      | E | 3                         | -        | 2         | 2         | 2         | 2         | 1        | -        | -        | -        | 0        | -        |
|              | Discharge     | F | 2                         | -        | 1         | 2         | 1         | 1         | 0        | -        | -        | -        | 0        | -        |
|              | (D+E+F) x 2   |   | 14                        | -        | 10        | 14        | 10        | 10        | 2        | -        | -        | -        | 0        | -        |
| <b>Total</b> |               |   | <b>39</b>                 | <b>-</b> | <b>55</b> | <b>59</b> | <b>30</b> | <b>20</b> | <b>7</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>0</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (27+47+55) / 3 = 43.0**

**\*Promethazine Hydrochloride**

|               |          |                      |        |
|---------------|----------|----------------------|--------|
| Source        | Aldrich  | Concentration tested | 100 %  |
| Specification |          | Weight tested        | 100 mg |
| CAS No.       | 58-33-3  | No. of rabbits       | 3      |
| Purity        | 98 %     |                      |        |
| Product No.   | 28,411-4 |                      |        |

|              |               |   | Observation period (days) |          |           |           |           |           |                |          |          |          |           |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|----------------|----------|----------|----------|-----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7              | 9        | 10       | 12       | 14        | 21       |
| Cornea       | Opacity       | A | 4                         | -        | 3         | 3         | 3         | 2         | 3              | -        | -        | -        | 3         | -        |
|              | Area involved | B | 4                         | -        | 2         | 1         | 1         | 4         | 3              | -        | -        | -        | 4         | -        |
|              | (AxB) x 5     |   | 80                        | -        | 30        | 15        | 15        | 40        | 45             | -        | -        | -        | 60        | -        |
| Iris         |               | C | 2 <sup>a</sup>            | -        | 1         | 2         | 1         | 1         | 2 <sup>a</sup> | -        | -        | -        | 0         | -        |
|              | C x 5         |   | 10                        | -        | 5         | 10        | 5         | 5         | 10             | -        | -        | -        | 0         | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 3         | 3         | 2              | -        | -        | -        | 0         | -        |
|              | Chemosis      | E | 2                         | -        | 4         | 2         | 2         | 3         | 1              | -        | -        | -        | 0         | -        |
|              | Discharge     | F | 4                         | -        | 2         | 3         | 2         | 1         | 2              | -        | -        | -        | 0         | -        |
|              | (D+E+F) x 2   |   | 16                        | -        | 18        | 16        | 14        | 14        | 10             | -        | -        | -        | 0         | -        |
| <b>Total</b> |               |   | <b>106</b>                | <b>-</b> | <b>53</b> | <b>41</b> | <b>34</b> | <b>59</b> | <b>65</b>      | <b>-</b> | <b>-</b> | <b>-</b> | <b>60</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |           |          |          |          |           |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|-----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7         | 9        | 10       | 12       | 14        | 21       |
| Cornea       | Opacity       | A | 4                         | -        | 3         | 3         | 3         | 2         | 3         | -        | -        | -        | 3         | -        |
|              | Area involved | B | 4                         | -        | 4         | 1         | 1         | 4         | 3         | -        | -        | -        | 4         | -        |
|              | (AxB) x 5     |   | 80                        | -        | 60        | 15        | 15        | 40        | 45        | -        | -        | -        | 60        | -        |
| Iris         |               | C | 2 <sup>a</sup>            | -        | 1         | 2         | 1         | 1         | 1         | -        | -        | -        | 0         | -        |
|              | C x 5         |   | 10                        | -        | 5         | 10        | 5         | 5         | 5         | -        | -        | -        | 0         | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 3         | 3         | 2         | -        | -        | -        | 1         | -        |
|              | Chemosis      | E | 2                         | -        | 2         | 2         | 3         | 3         | 2         | -        | -        | -        | 1         | -        |
|              | Discharge     | F | 4                         | -        | 3         | 3         | 3         | 2         | 1         | -        | -        | -        | 0         | -        |
|              | (D+E+F) x 2   |   | 16                        | -        | 16        | 16        | 18        | 16        | 10        | -        | -        | -        | 4         | -        |
| <b>Total</b> |               |   | <b>106</b>                | <b>-</b> | <b>81</b> | <b>41</b> | <b>38</b> | <b>61</b> | <b>60</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>64</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |                |          |          |          |           |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|----------------|----------|----------|----------|-----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7              | 9        | 10       | 12       | 14        | 21       |
| Cornea       | Opacity       | A | 4                         | -        | 3         | 3         | 3         | 2         | 3              | -        | -        | -        | 3         | -        |
|              | Area involved | B | 4                         | -        | 4         | 2         | 1         | 4         | 4              | -        | -        | -        | 4         | -        |
|              | (AxB) x 5     |   | 80                        | -        | 60        | 30        | 15        | 40        | 60             | -        | -        | -        | 60        | -        |
| Iris         |               | C | 2 <sup>a</sup>            | -        | 1         | 2         | 1         | 1         | 2 <sup>a</sup> | -        | -        | -        | 0         | -        |
|              | C x 5         |   | 10                        | -        | 5         | 10        | 5         | 5         | 10             | -        | -        | -        | 0         | -        |
| Conjunctiva  | Redness       | D | 2                         | -        | 3         | 3         | 3         | 3         | 2              | -        | -        | -        | 1         | -        |
|              | Chemosis      | E | 4                         | -        | 3         | 3         | 3         | 3         | 2              | -        | -        | -        | 1         | -        |
|              | Discharge     | F | 2                         | -        | 2         | 2         | 2         | 2         | 1              | -        | -        | -        | 0         | -        |
|              | (D+E+F) x 2   |   | 16                        | -        | 16        | 16        | 16        | 16        | 10             | -        | -        | -        | 4         | -        |
| <b>Total</b> |               |   | <b>106</b>                | <b>-</b> | <b>81</b> | <b>56</b> | <b>36</b> | <b>61</b> | <b>80</b>      | <b>-</b> | <b>-</b> | <b>-</b> | <b>64</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (53+81+81) / 3 = 71.7**

<sup>a</sup> Maximum score assumed for iris (obscured by opacity)

**\*Quinacrine**

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Source        | Sigma   | Concentration tested | 100 %  |
| Specification |         | Weight tested        | 100 mg |
| CAS No.       | 69-05-6 | No. of rabbits       | 3      |
| Purity        | -       |                      |        |
| Product No.   | Q 3251  |                      |        |

|              |               |   | Observation period (days) |          |           |           |           |           |                |          |          |          |                |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|----------------|----------|----------|----------|----------------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7              | 9        | 10       | 12       | 14             | 21       |
| Cornea       | Opacity       | A | 4                         | -        | 3         | 3         | 2         | 2         | 3              | -        | -        | -        | 3              | -        |
|              | Area involved | B | 2                         | -        | 2         | 2         | 4         | 4         | 4              | -        | -        | -        | 4              | -        |
|              | (AxB) x 5     |   | 40                        | -        | 30        | 30        | 40        | 40        | 60             | -        | -        | -        | 60             | -        |
| Iris         |               | C | 2 <sup>a</sup>            | -        | 1         | 1         | 2         | 1         | 2 <sup>a</sup> | -        | -        | -        | 2 <sup>a</sup> | -        |
|              | C x 5         |   | 10                        | -        | 5         | 5         | 10        | 5         | 10             | -        | -        | -        | 10             | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 2         | 3         | 3         | 3         | 2              | -        | -        | -        | 2              | -        |
|              | Chemosis      | E | 3                         | -        | 2         | 2         | 3         | 3         | 2              | -        | -        | -        | 2              | -        |
|              | Discharge     | F | 2                         | -        | 1         | 2         | 2         | 2         | 1              | -        | -        | -        | 2              | -        |
|              | (D+E+F) x 2   |   | 12                        | -        | 10        | 14        | 16        | 16        | 10             | -        | -        | -        | 12             | -        |
| <b>Total</b> |               |   | <b>62</b>                 | <b>-</b> | <b>45</b> | <b>49</b> | <b>66</b> | <b>61</b> | <b>80</b>      | <b>-</b> | <b>-</b> | <b>-</b> | <b>82</b>      | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |                |          |          |          |                |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|----------------|----------|----------|----------|----------------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7              | 9        | 10       | 12       | 14             | 21       |
| Cornea       | Opacity       | A | 4                         | -        | 3         | 3         | 2         | 2         | 3              | -        | -        | -        | 3              | -        |
|              | Area involved | B | 1                         | -        | 2         | 1         | 4         | 4         | 3              | -        | -        | -        | 4              | -        |
|              | (AxB) x 5     |   | 20                        | -        | 30        | 15        | 40        | 40        | 45             | -        | -        | -        | 60             | -        |
| Iris         |               | C | 2 <sup>a</sup>            | -        | 1         | 2         | 2         | 1         | 2 <sup>a</sup> | -        | -        | -        | 2 <sup>a</sup> | -        |
|              | C x 5         |   | 10                        | -        | 5         | 10        | 10        | 5         | 10             | -        | -        | -        | 10             | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 2         | 3         | 3         | 3         | 2              | -        | -        | -        | 2              | -        |
|              | Chemosis      | E | 3                         | -        | 2         | 2         | 3         | 2         | 2              | -        | -        | -        | 2              | -        |
|              | Discharge     | F | 2                         | -        | 2         | 2         | 2         | 1         | 1              | -        | -        | -        | 2              | -        |
|              | (D+E+F) x 2   |   | 12                        | -        | 12        | 14        | 16        | 12        | 10             | -        | -        | -        | 12             | -        |
| <b>Total</b> |               |   | <b>42</b>                 | <b>-</b> | <b>47</b> | <b>39</b> | <b>66</b> | <b>57</b> | <b>65</b>      | <b>-</b> | <b>-</b> | <b>-</b> | <b>82</b>      | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |           |                |          |          |          |                |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|-----------|----------------|----------|----------|----------|----------------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4         | 7              | 9        | 10       | 12       | 14             | 21       |
| Cornea       | Opacity       | A | 4                         | -        | 3         | 3         | 2         | 2         | 3              | -        | -        | -        | 3              | -        |
|              | Area involved | B | 3                         | -        | 2         | 1         | 4         | 4         | 3              | -        | -        | -        | 4              | -        |
|              | (AxB) x 5     |   | 60                        | -        | 30        | 15        | 40        | 40        | 45             | -        | -        | -        | 60             | -        |
| Iris         |               | C | 2 <sup>a</sup>            | -        | 1         | 2         | 2         | 1         | 2 <sup>a</sup> | -        | -        | -        | 2 <sup>a</sup> | -        |
|              | C x 5         |   | 10                        | -        | 5         | 10        | 10        | 5         | 10             | -        | -        | -        | 10             | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 2         | 3         | 3         | 3         | 2              | -        | -        | -        | 2              | -        |
|              | Chemosis      | E | 3                         | -        | 2         | 2         | 3         | 3         | 2              | -        | -        | -        | 2              | -        |
|              | Discharge     | F | 2                         | -        | 2         | 2         | 2         | 2         | 1              | -        | -        | -        | 2              | -        |
|              | (D+E+F) x 2   |   | 12                        | -        | 12        | 14        | 16        | 16        | 10             | -        | -        | -        | 12             | -        |
| <b>Total</b> |               |   | <b>82</b>                 | <b>-</b> | <b>47</b> | <b>39</b> | <b>66</b> | <b>61</b> | <b>65</b>      | <b>-</b> | <b>-</b> | <b>-</b> | <b>82</b>      | <b>-</b> |

**MMAS (Modified Maximum Average Score) (82+82+82) / 3 = 82.0**

<sup>a</sup> Maximum score assumed for iris (obscured by opacity)



**\*Chlorhexidine**

|               |         |                      |        |
|---------------|---------|----------------------|--------|
| Source        | Degussa | Concentration tested | 100 %  |
| Specification |         | Weight tested        | 100 mg |
| CAS No.       | 55-56-1 | No. of rabbits       | 3      |
| Purity        | -       |                      |        |

|              |               |   | Observation period (days) |          |                |                |                |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|----------------|----------------|----------------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1              | 2              | 3              | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 4                         | -        | 4              | 4              | 4              | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 4                         | -        | 4              | 4              | 4              | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 80                        | -        | 80             | 80             | 80             | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 2 <sup>a</sup>            | -        | 2 <sup>a</sup> | 2 <sup>a</sup> | 2 <sup>a</sup> | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 10                        | -        | 10             | 10             | 10             | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1              | 1              | 1              | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 3                         | -        | 4              | 3              | 3              | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 2              | 2              | 3              | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 12                        | -        | 14             | 12             | 14             | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>102</b>                | <b>-</b> | <b>104</b>     | <b>102</b>     | <b>104</b>     | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 2             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 2         | 2         | 2         | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 3                         | -        | 3         | 3         | 3         | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 30                        | -        | 30        | 30        | 45        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1         | 1         | 1         | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 4                         | -        | 4         | 4         | 4         | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 2                         | -        | 3         | 3         | 2         | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 14                        | -        | 16        | 16        | 14        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>49</b>                 | <b>-</b> | <b>51</b> | <b>51</b> | <b>64</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

|              |               |   | Observation period (days) |          |           |           |           |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 3             |   | 1 h                       | 4 h      | 1         | 2         | 3         | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 2                         | -        | 2         | 2         | 3         | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 4                         | -        | 4         | 4         | 4         | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 40                        | -        | 40        | 40        | 60        | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 1                         | -        | 1         | 1         | 1         | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 5                         | -        | 5         | 5         | 5         | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 1                         | -        | 1         | 1         | 1         | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 3                         | -        | 4         | 3         | 3         | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | 3                         | -        | 2         | 2         | 3         | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 14                        | -        | 14        | 12        | 14        | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>59</b>                 | <b>-</b> | <b>59</b> | <b>57</b> | <b>79</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) (104+64+79) / 3 = 82.3**

<sup>a</sup> Maximum score assumed for iris (obscured by opacity)

**\*1,2,4-Triazole, Sodium Salt**

|               |             |                      |        |
|---------------|-------------|----------------------|--------|
| Source        | Elf Atochem | Concentration tested | 100 %  |
| Specification |             | Weight tested        | 100 mg |
| CAS No.       | 41253-21-8  | No. of rabbits       | 1      |
| Purity        | 99.0 %      |                      |        |

|              |               |   | Observation period (days) |          |              |              |              |          |          |          |          |          |          |          |
|--------------|---------------|---|---------------------------|----------|--------------|--------------|--------------|----------|----------|----------|----------|----------|----------|----------|
| Animal No.   | 1             |   | 1 h                       | 4 h      | 1            | 2            | 3            | 4        | 7        | 9        | 10       | 12       | 14       | 21       |
| Cornea       | Opacity       | A | 4                         | -        | 4            | 4            | 4            | -        | -        | -        | -        | -        | -        | -        |
|              | Area involved | B | 4                         | -        | 4            | 4            | 4            | -        | -        | -        | -        | -        | -        | -        |
|              | (AxB) x 5     |   | 80                        | -        | 80           | 80           | 80           | -        | -        | -        | -        | -        | -        | -        |
| Iris         |               | C | 2                         | -        | 2            | 2            | 2            | -        | -        | -        | -        | -        | -        | -        |
|              | C x 5         |   | 10                        | -        | 10           | 10           | 10           | -        | -        | -        | -        | -        | -        | -        |
| Conjunctiva  | Redness       | D | 3                         | -        | 3            | 3            | 3            | -        | -        | -        | -        | -        | -        | -        |
|              | Chemosis      | E | 4                         | -        | 4            | 4            | 3            | -        | -        | -        | -        | -        | -        | -        |
|              | Discharge     | F | <sup>a</sup>              | -        | <sup>a</sup> | <sup>a</sup> | <sup>a</sup> | -        | -        | -        | -        | -        | -        | -        |
|              | (D+E+F) x 2   |   | 14                        | -        | 14           | 14           | 12           | -        | -        | -        | -        | -        | -        | -        |
| <b>Total</b> |               |   | <b>104</b>                | <b>-</b> | <b>104</b>   | <b>104</b>   | <b>102</b>   | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>-</b> |

**MMAS (Modified Maximum Average Score) = 104**

<sup>a</sup> No readings for discharge

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## MEMBERS OF THE TASK FORCE

|                                   |                                                |
|-----------------------------------|------------------------------------------------|
| A. Walker (Chairman) <sup>a</sup> | Apojay Consultancy<br>UK - Tyne and Wear       |
| D. Bagley                         | Colgate Palmolive<br>USA - Piscataway, NJ      |
| J. Gardner <sup>b</sup>           | Hazleton Laboratories Europe<br>UK - Harrogate |
| G. Holland                        | Unilever<br>UK - Sharnbrook                    |
| R. Kreiling                       | Hoechst<br>D - Frankfurt                       |
| R. Lewis                          | Zeneca<br>UK - Macclesfield                    |
| H. Vrijhof (Secretary)            | ECETOC<br>B - Brussels                         |

---

<sup>a</sup> Representing Procter & Gamble UK

<sup>b</sup> Representing Shell

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Environmental Health and Human Toxicology

Shell International  
NL - Den Haag

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Dow Europe  
CH - Horgen

O. Bøckman<sup>a</sup>, Scientific Adviser

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Worldwide

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Novartis  
CH - Basel

B. Hildebrand, Director,  
Experimental Toxicology

BASF  
D - Ludwigshafen

J. Jackson<sup>a</sup>, Senior Associate  
Medical Adviser

Monsanto  
B - Brussels

E. Löser, Head,  
Institute of Industrial Toxicology

Bayer  
D - Wuppertal

R. Millischer, Head,  
Industrial Toxicology Department

Elf Atochem  
F - Paris La Défense

G. Randall, Director,  
Environmental Laboratory

Zeneca  
UK - Brixham

A. Sarrif, Associate Director  
Toxicology Affairs

DuPont  
D-Bad Homburg

J. Solbé,  
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Unilever  
UK - Bebington

H-J. Wiegand, Head,  
Product Safety Department

Hüls AG  
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---

<sup>a</sup> Stewards responsible for primary peer review