
Technical Report No. 66

**SKIN IRRITATION AND
CORROSION: REFERENCE
CHEMICALS DATA BANK**

March 1995

LIST OF ECETOC PUBLICATIONS (continued inside back cover)

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No. 1	Good Laboratory Practice. Oct 79
No. 2	Contribution to Strategy for Identification and Control of Occupational Carcinogens. Sep 80
No. 3	Risk Assessment of Occupational Chemical Carcinogens. Jan 82
No. 4	Hepatocarcinogenesis in Laboratory Rodents : Relevance for Man. Oct 82
No. 5	Identification and Assessment of the Effects of Chemicals on Reproduction and Development (Reproductive Toxicology). Dec 83
No. 6	Acute Toxicity Tests, LD ₅₀ (LC ₅₀) Determinations and Alternatives. May 85
No. 7	Recommendations for the Harmonisation of International Guidelines for Toxicity Studies. Dec 85
No. 8	Structure-Activity Relationships in Toxicology and Ecotoxicology: An Assessment. Feb 86
No. 9	Assessment of Mutagenicity of Industrial and Plant Protection Chemicals. Jun 87
No. 10	Identification of Immunotoxic Effects of Chemicals and Assessment of their Relevance to Man. Aug 87
No. 11	Eye Irritation Testing. Jun 88
No. 12	Alternative Approaches for the Assessment of Reproductive Toxicity (with emphasis on embryotoxicity/teratogenicity). Nov 89
No. 13	DNA and Protein Adducts: Evaluation of their Use in exposure Monitoring and Risk Assessment. Oct 89
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No. 18	Evaluation of the Neurotoxic Potential of Chemicals. Sep 92
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No. 20	Percutaneous Absorption. Aug 93
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No. 22	Evaluation of Chemicals for Oculotoxicity. Nov 94

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No. 2	Joint Assessment of Commodity Chemicals, 1,4-Dioxane. Feb 83
No. 3	Joint Assessment of Commodity Chemicals, Methyl Ethyl Ketone. Feb 83
No. 4	Joint Assessment of Commodity Chemicals, Methylene Chloride. Jan 84
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No. 12	Joint Assessment of Commodity Chemicals, (HFA-124) 1-Chloro-1,2,2,2-Tetrafluoroethane. May 90
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No. 14	Joint Assessment of Commodity Chemicals, (HFA-133a) 1-Chloro-2,2,2-Trifluoromethane. Aug 90
No. 15	Joint Assessment of Commodity Chemicals, (HFA-141B) 1-Fluoro 1,1-Dichloroethane. Aug 90
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No. 26	Joint Assessment of Commodity Chemicals, Linear Polydimethylsiloxanes (viscosity 10-100,000 centisokes). Sep 94
No. 27	Joint Assessment of Commodity Chemicals, <i>n</i> -Butyl Acrylate. CAS No. 141-32-2. Aug 94
No. 28	Joint Assessment of Commodity Chemicals, Ethyl Acrylate. CAS No. 140-88-5. Sep 94
No. 29	Joint Assessment of Commodity Chemicals, 1,1-Dichloro-1-Fluoroethane (HCFC-141b) CAS No 1717-00-6. Feb 95
No. 30	Joint Assessment of Commodity Chemicals, Methyl Methacrylate. Cas No. 80-62-6. Feb 95
No. 31	Joint Assessment of Commodity Chemicals, 1,1,1,2-Tetrafluoroethane (HFC-134a) CAS No. 811-97-2. Feb 95

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SKIN IRRITATION AND CORROSION: REFERENCE CHEMICALS DATA BANK

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SKIN IRRITATION AND CORROSION: REFERENCE CHEMICALS DATA BANK

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SUMMARY

Earlier ECETOC has published comprehensive listing of *in vivo* rabbit eye irritation data for 55 readily-available chemicals of high purity. The establishment of such a data bank allows investigators of *in vitro* or alternative methods to evaluate their own techniques without the need to carry out *in vivo* testing of the reference chemicals.

A companion data bank has now been developed for 176 chemicals for which comprehensive rabbit skin irritation/corrosion data are available. No new *in vivo* testing has been carried out to qualify a chemical for inclusion in this list. The 176 chemicals selected are readily available at high and consistent purity and are expected to be stable on 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 404 and following the principles of Good Laboratory Practice. The data presented were obtained from tests normally using at least three rabbits, involving application of 0.5ml (or 0.5g) to the flank under semi-occlusive patches and in which observations were made at least 24, 48, and 72 hours after application.

The chemicals represent a range of chemical classes (acids, acrylates/methacrylates, alcohols, aldehydes, alkalis, amides, amines, brominated derivatives, chlorinated solvents, esters, ethers, fatty acids and mixtures, fragrance oils, halogenated aromatics, hydrocarbons (unsaturated), inorganics, ketones, nitriles, phenolic derivatives, S-containing compounds, soaps/surfactants, triglycerides) and different degrees of irritancy. The chemicals are ranked for skin irritation potential on the basis of a 'primary irritation index'. They should be of use in validation tests of promising alternatives to the *in vivo* rabbit skin irritation/corrosion test. This is an essential step in the progression to regulatory acceptance.

Classification schemes for chemicals on the basis of their skin irritation/corrosion properties are appended to the report for the convenience of readers.

SECTION 1. BACKGROUND AND INTRODUCTION

The importance of high quality toxicological data on chemicals used in validation of in vitro methods has been emphasised (Purchase, 1990).

As a consequence, ECETOC has published comprehensive listing of *in vivo* rabbit eye irritation data for 55 chemicals (in 72 tests) (ECETOC, 1992). The *in vivo* data were generated in tests carried out according to OECD Test Guideline 404 (OECD, 1981, 1992) and following the principles of Good Laboratory Practice. All the chemicals are available at high and consistent purity and are expected to be stable on storage. The availability of this reference chemical data bank of chemicals of known purity and ocular irritation response allows investigators of alternative eye irritation assessment techniques to evaluate the performance of their techniques against reference chemicals without the need to carry out *in vivo* testing.

Subsequently (1993) a Task Force was formed to develop a similar reference data bank for chemicals found to be irritant or corrosive to rabbit skin. The data bank could be used in assessing the potential of alternative techniques as a replacement for *in vivo* rabbit skin irritation/corrosivity tests.

The terms of reference of the Task Force were:

- to derive from the literature sources of *in vivo* skin corrosivity/irritancy data of chemicals,
- to prepare a list of chemicals suitable for use in the validation of alternative methods for the assessment of skin corrosion and irritation; the list should contain chemicals covering different classes and different degrees of corrosion and irritancy,
- to rank the skin corrosivity/irritancy potential of the chemicals on the basis of the individual data available.

SECTION 2. PROCESS FOR THE SELECTION OF CHEMICALS

The scientific literature does not contain the detailed data required by the Task Force to compile a suitable data bank. Authors of relevant publications in the literature were contacted and asked if they would make individual rabbit skin data available to the Task Force. Additionally, companies known to possess data were requested to provide information. The activity of the Task Force was publicised by an "APPEAL FOR RABBIT SKIN IRRITATION DATA" which appeared in journals which would reach the toxicological community. This appeal was also widely publicised at internationally-supported scientific meetings.

The chemicals and the *in vivo* skin irritation/corrosivity data given in Appendix A meet the following selection criteria.

Reference chemicals are single chemical entities commercially available at known high consistent purity and expected to be stable on storage.

Some commercial chemicals, manufactured and supplied to a specification which ensures a consistent purity, are included in the data bank, e.g. fatty acids where composition is guaranteed by analytical parameters such as saponification value rather than percentage purity, and perfume chemicals where odour is a prime consideration.

The *in vivo* rabbit skin irritation data have been generated since 1981 in studies carried out according to OECD Test Guideline 404 (OECD 1981, 1992) and following the Principles of Good Laboratory Practice, and have been obtained in tests:

- normally using at least three albino rabbits tested at the same time,
- involving application of 0.5ml or 0.5g of the test substance to intact skin for not more than 4 hours exposure,
- in which observations were made at least 24, 48 and 72 hours after patch removal,
 - or over sufficient duration to enable reversibility/ irreversibility to be assessed,
 - and include individual scores (using the Draize scale) for each observation in each rabbit,

- 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).

Some of the data for chemicals included in Appendix A were generated in multi-patch studies in which more than one chemical was tested on the same rabbit at the same time. The Task Force decided that:

- multi-patch studies did not contravene OECD Test Guideline 404,
- such studies should be identified on the individual data sheets (and on the index sheets) in Appendix A.

In no case was interference reported between reactions on different patch sites in the multi-patch studies.

SECTION 3. CHEMICALS DATA BANK

3.1 CHEMICALS SELECTED

One hundred and seventy six chemicals met the criteria defined above (Section 2) for inclusion in the data bank assessed in 215 tests.

The availability of *in vivo* data available precluded the need for any additional animal testing.

3.2 GRADING OF EFFECTS ON SKIN

The grading scale for irritant effects on rabbit skin, originally proposed by Draize and adopted by OECD Test Guideline 404 and the US and EC regulatory agencies, is shown in Table 1.

Table 1 Grading Scale for Skin Irritation Effects According to EC and US Regulatory Agencies Following OECD Test Guideline 404

Erythema and eschar formation	Grade
No erythema	0
Very slight erythema (barely perceptible)	1
Well-defined erythema	2
Moderate to severe erythema	3
Severe erythema (beet redness) to slight eschar formation (injuries in depth)	4
Oedema formation	Grade
No oedema	0
	1
Very slight oedema (barely perceptible)	2
Slight oedema (edges of area well defined by definite raising)	3
Moderate oedema (raised approximately 1 millimetre)	
Severe oedema (raised more than 1 millimetre and extending beyond area of exposure)	4

Definition of skin 'corrosion'

There is no internationally-harmonised definition of 'corrosion'. The definitions used by different national/international regulatory bodies are summarised in Appendix B.

3.3 RANKING OF CHEMICALS SELECTED

The skin irritation potential of chemicals is often summarised as the "Primary Irritation Index" (PII) calculated from erythema and oedema grades.

PII's are not always calculated the same way. For the purpose of this data bank, PII was calculated according to the following formula :

$$PII = \frac{\sum \text{ERYTHEMA at 24/48/72 hrs} + \sum \text{OEDEMA at 24/48/72 hrs}}{3 \times \text{no. of animals}}$$

The maximum possible PII is 8.

The use of PII in this report is for the purposes of relative ranking of skin effects, and does not necessarily represent endorsement by the Task Force of its use for assessment of irritancy hazard.

3.4 SKIN TOXICITY DATA

The data of the skin toxicity of 176 chemicals have been assembled - presented as

- (a) a list of chemicals by chemical data (Appendix A, Table A1)
- (b) a list of chemicals by Primary Irritation Index (Appendix A, Table A2)

and (c) individual animal data (Appendix A, Table A3).

3.5 CLASSIFICATION SCHEMES

Data obtained from *in vivo* rabbit skin irritation tests are used to assess the potential of materials to cause skin irritancy or corrosion in man, and to meet regulatory requirements which require classification and appropriate labelling of a material if it is believed to be potentially irritant or corrosive. Different national/international schemes exist for the classification of the irritancy/corrosivity hazard.

The principal classification schemes are summarised, **for guidance only**, in Appendix C to facilitate comparison of results from alternative techniques against the scheme most appropriate to an investigator's needs.

SECTION 4. USE OF THIS REPORT

The use of these chemicals in the validation of alternative tests will help to provide comparable information on test performance. In carrying out such validation studies, sufficient chemicals from a variety of classes, with a range of PIs should be used.

GLOSSARY

The following definitions are reproduced from an ECETOC monograph on Skin Irritation (ECETOC, 1990) and are used in this data bank :

DERMAL IRRITATION:

The production of reversible inflammatory changes in irritation skin following the application of a substance.

DERMAL CORROSION:

The production of scarring usually as the result of corrosion tissue destruction (necrosis) following the application of a substance.

ERYTHEMA:

Redness of the skin produced by vascular congestion or increased perfusion.

ESCHAR:

A superficial dry slough at the site of a heat or caustic burn which contains cell debris and dried tissue exudate and occludes the healing skin.

OEDEMA:

The presence of abnormally large amounts of fluid in the intercellular tissue spaces of the epidermis, dermis or subcutaneous tissues.

SCAR (CICATRIX) :

Fibrous tissue replacing normal tissues which have been destroyed by injury or disease.

APPENDIX A: SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

Table A1. Chemicals grouped according to chemical type 11

Table A2. Chemicals in order of increasing primary irritation index 16

All chemicals were tested applying a volume or weight of 0.5ml or 0.5g undiluted, except where an alternative weight or concentration is specified. Exposure time was for 4 hours except when specified otherwise.

Numerical suffixes (e.g [1], [2]) denote instances where the same sample of the chemical (or a sample meeting the same specification) was retested in the same laboratory.

THE CHEMICALS LISTED IN THIS APPENDIX MAY BE OBTAINED IN 10g PACKAGES FROM :

BIBRA INTERNATIONAL
WOODMANSTERNE ROAD
CARSHALTON
SURREY SM5 4DS
UNITED KINGDOM

DISCLAIMER

THE CHEMICALS LISTED IN APPENDIX A HAVE BEEN ASSESSED BY THE ECETOC TASK FORCE ONLY IN RELATION TO *IN VIVO* RABBIT SKIN 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.

Table A1. Skin Irritation Data for Individual Rabbits; Index by Chemical Class

PII = Primary Irritation Index

N = number of animals

M = tested in multi-patch study

[S] = solid, tested with chemical or patch moistened with water

		Conc/Time Tested	Purity(%)	N	PII	Page
ACIDS - [2 chemicals]						
M	2-methylbutyric acid		>95	4	>4	21
M	10-undecenoic acid		98.8	4	2.42	22
ACRYLATES/METHACRYLATES - [4 chemicals]						
	ethyltriglycol methacrylate		96.1	3	0.22	23
	ethylthioethyl methacrylate		99.7	3	0.56	24
	2-ethoxyethyl methacrylate		99.8	3	1.67	25
	2-methoxyethyl acrylate		99.6	3	-	26
ALCOHOLS - [19 chemicals, 32 tests]						
M	benzyl alcohol [1]		>99	3	1.56	27
M	benzyl alcohol [2]		>99	4	1.83	28
M	cinnamyl alcohol [1]	[S]	98.9	3	0	29
M	cinnamyl alcohol [2]	[S]	98.9	6	0.5	30
	dl-citronellol [1]		98.7	3	4.22	31
M	dl-citronellol [2]		98.7	4	4.0	32
M	dl-citronellol [3]		98.7	4	3.67	33
M	1-decanol		98.8	4	3.33	34
M	dihydromercenol [1]		>98	3	3.67	35
M	dihydromercenol [2]		>98	4	2.0	36
	2,6-dimethyl-4-heptanol		90	3	0	37
M	dipropylene glycol [1]		>99	3	0.33	38
M	dipropylene glycol [2]		>99	4	0	39
M	geraniol [1]		90.7	3	3.67	40
M	geraniol [2]		90.7	4	3.33	41
M	geraniol [3]		90.7	4	2.92	42
M	geranyl dihydrolinalool		>90	4	2.25	43
M	geranyl linalool		matches standard	4	4.29	44
M	alpha-lonol		90-95	4	1.33	45
M	beta-lonol		93.4	4	1.88	46
M	Linalol (= Linalool) [1]		97.1	3	3.33	47
M	Linalol (= Linalool) [2]		97.1	4	3.42	48
M	Linalol (= Linalool) [3]		97.1	4	2.08	49
M	p-mentha-1,8-dien-7-ol		94.6	4	3.29	50
M	2-methyl-4-phenyl-2-butanol		100	4	1.58	51
M	phenylethyl alcohol [1]		99.6	3	2.22	52
M	phenylethyl alcohol [2]		99.6	4	0.92	53
M	isopropanol		100	3	0.78	54
	stearyl alcohol		-	3	2.56	55
M	alpha-terpineol [1]		98.4	3	4.44	56
M	alpha-terpineol [2]		98.4	4	4.75	57
M	alpha-terpineol [3]		98.4	4	4.0	58
ALDEHYDES [24 chemicals, 31 tests]						
M	p-tert-butyl dihydrocinnamaldehyde		95.0	4	2.42	59
M	isobutyraldehyde		98	4	0.13	60
M	cinnamaldehyde		98.4	4	3.71	61
M	citrathal		-	4	3.63	62
M	cyclamen aldehyde [1]		>98	3	5.11	63

		Conc/Time Tested	Purity(%)	N	PII	Page
M	cyclamen aldehyde [2]		>98	4	4.17	64
M	cyclamen aldehyde [3]		>98	4	4.83	65
M	cyclamen aldehyde [4]		>98	4	3.42	66
M	2,4-decadienal		96.5	4	4.79	67
M	2,4-dimethyl-3-cyclohexen-1-carboxaldehyde		99.0	4	3.21	68
M	3,7-dimethyl-2,6-nonadien-1-al		matches standard	4	3.75	69
M	2,4-dimethyltetrahydrobenzaldehyde		-	4	2.75	70
M	2-ethylhexanal		-	4	3.88	71
M	heptanal		95.0	4	5.0	72
M	2,4-hexadienal		-	4	7.08	73
M	alphahexyl cinnamic aldehyde [1]		91.9	3	4.0	74
M	alphahexyl cinnamic aldehyde [2]		91.9	4	4.0	75
M	alphahexyl cinnamic aldehyde [3]		91.9	4	2.58	76
M	hydroxycitronellal [1]		98.7	3	1.11	77
M	hydroxycitronellal [2]		98.7	4	0.92	78
M	Lilestralis/Lilial [1]		97.8	3	4.56	79
M	Lilestralis/Lilial [2]		97.8	4	3.58	80
M	3-methylbutyraldehyde		>98.5	4	2.83	81
M	2,5-methylene-6-propyl-3-cyclohexen-carbaldehyde		>92	4	2.42	82
M	nonanal		98.9	4	3.46	83
M	2-phenylpropionaldehyde		98.4	4	2.92	84
M	p-isopropylphenylacetaldehyde		>97	4	2.29	85
M	salicylaldehyde		>98	4	2.54	86
M	tetrahydrogeranial		-	4	2.58	87
M	4-tricyclo-decylindene-8-butanal		>90	4	3.29	88
	methacrolein		97	3	4.11	89

ALKALIS - [4 chemicals, 6 tests]

M	potassium hydroxide	5%	)REAGENT	3	5.22	90
M	potassium hydroxide	10%	)GRADE	3	-	91
	sodium bicarbonate	[S] 0.3g	99.7	3	0.11	92
M	sodium carbonate	50%	100	3	2.33	93
M	sodium metasilicate	10%	)REAGENT	3	1.22	94
M	sodium metasilicate	50%	)GRADE	3	3.67	95

AMIDES - [1 chemical]

	erucamide [S]	-		3	0	96
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AMINES - [14 chemicals, 16 tests]

	diethylaminopropylamine		99.8	1	-	97
	N,N-dimethylbenzylamine		99.3	3	-	98
	dimethyl-n-butylamine		99.5	6	5.11	99
	dimethylisopropylamine		99.6	6	5.61	100
	dimethyldipropylenetriamine	3min	99.5	1	-	101
	dimethyldipropylenetriamine	4hr	99.5	3	-	101
	2,4-dinitromethylaniline	[S]	99	3	0	102
	n-heptylamine		99.5	6	6.67	103
	methoxy-3-propylamine		>99	6	6.67	104
	oleyl propylene diamine dioleate		-	3	3.67	105
	hydrogenated tallow amine	[S]	>95	3	3.56	106
	hydrogenated tallow propylene diamine	[S]	>85	6	0	107
	tallow polypropylene polyamine	[S] 3min	>95	3	2.67	108
	tallow polypropylene polyamine	[S] 1hr	>95	3	4.11	109
	tallowamine	[S] 3min	>95	3	-	110
	2,4-xylidine		98.1	3	1.44	111

		Conc/Time Tested	Purity(%)	N	PII	Page
BROMINATED DERIVATIVES - [11 chemicals, 12 tests]						
	allyl bromide	3min	99	1	-	112
	allyl bromide	4hr	99	2	7.17	112
	2-bromobutane		>99	3	2.44	113
	1-bromo-4-chlorobutane		98	3	0	114
	1-bromo-2-chloroethane		98	3	2.33	115
	1-bromo-4-fluorobenzene		99	3	0.33	116
	1-bromohexane		>98.5	3	4.0	117
	1-bromopentane		99	3	4.44	118
	2-bromopropane		99	3	1.44	119
	1,6-dibromohexane		98.4	3	0.89	120
	1,3-dibromopropane		98.4	3	1.89	121
	phenethyl bromide		99.5	3	0	122
CHLORINATED SOLVENTS - [4 chemicals]						
	dichloromethane		>99.95	3	5.67	123
	tetrachloroethylene		>99.95	3	5.67	124
	1,1,1-trichloroethane		>99.95	3	5.22	125
	trichloroethylene		>99.95	3	5.44	126
ESTERS - [28 chemicals, 40 tests]						
M	allyl heptanoate		98.1	4	2.13	127
M	allyl phenoxyacetate		100	4	0.38	128
M	benzyl acetate [1]		99.3	3	1.56	129
M	benzyl acetate [2]		99.3	4	0.83	130
M	benzyl benzoate [1]		>99	3	0	131
M	benzyl benzoate [2]		>99	3	1.58	132
M	benzyl salicylate [1]		100	3	0.33	133
M	benzyl salicylate [2]		100	4	0.75	134
M	isobornyl acetate [1]		93.5	3	3.89	135
M	isobornyl acetate [2]		93.5	4	3.5	136
	n-butyl propionate		99	4	1.08	137
M	diethyl phthalate [1]		99.7	3	0	138
M	diethyl phthalate [2]		99.7	3	0.17	139
M	dimethylbenzylcarbinyacetate [1]	[S]	>97	3	1.22	140
M	dimethylbenzylcarbinyacetate [2]	[S]	>97	6	1.39	141
	2-ethylhexylcocoate		-	3	1.67	142
	2-ethylhexylpalmitate		-	3	0.56	143
M	ethyl tiglate		98.8	4	1.17	144
	ethyl trimethyl acetate		99	6	0.5	145
	glycolbromoacetate		85	1	7.67	146
M	heptyl butyrate		>95	4	1.75	147
M	hexyl salicylate [1]		>98	3	3.44	148
M	hexyl salicylate [2]		>98	4	3.67	149
M	hexyl salicylate [3]		>98	4	4.17	150
M	hexyl salicylate [4]		>98	4	3.33	151
M	linalyl acetate [1]		96.6	3	3.67	152
M	linalyl acetate [2]		96.6	4	2.92	153
	methyl caproate		99	3	2.78	154
	methyl laurate		99.5	3	3.89	155
	methyl linoleate		99	3	3.11	156
M	methyl 2-methylbutyrate		>95	4	0.67	157
	methyl palmitate		99	3	4.56	158
	methyl stearate		99	3	2.11	159
	methyl trimethyl acetate		99	3	0	160
	isopropylmyristate		-	3	1.22	161
	isopropylpalmitate		-	3	1.44	162
	isopropylisostearate		-	3	0.11	163
M	α terpinyl acetate [1]		100	3	3.56	164
M	α terpinyl acetate [2]		100	4	4.33	165
M	α terpinyl acetate [3]		100	4	2.75	166

		Conc/Time Tested	Purity(%)	N	PII	Page
ETHERS - [1 chemical]						
M	1,4-cineole (eucalyptol)		-	4	2.25	167
FATTY ACIDS AND MIXTURES - [10 chemicals/mixtures]						
	caprylic acid		-	3	4.44	168
	55/45 caprylic/capric acids		-	3	5.11	169
	60/40 caprylic/capric acids		-	3	-	170
	65/35 caprylic/capric acids		-	3	-	171
M	65/35 caprylic/capric acids		>92	3	5.33	172
	lauric acid	[S]	-	3	0.44	173
	70/30 oleine/caprylic acid		-	3	3.78	174
	80/20 oleine/caprylic acid		-	3	6.67	175
	90/10 oleine/caprylic acid		-	3	4.67	176
	isostearic acid		-	3	4.33	177
FRAGRANCE OILS [10 chemicals]						
M	cinnamon leaf oil		-	4	1.71	178
M	clove leaf oil		-	4	4.29	179
M	Litsea Cubaba oil		-	4	3.88	180
M	origanum oil		-	4	>4	181
M	parsley herb oil		-	4	3.0	182
M	perilla oil		-	4	2.42	183
M	pimenta leaf (allspice) oil		-	4	2.79	184
M	tagetes oil		-	4	3.13	185
M	Tea tree oil		-	4	3.63	186
M	thyme oil, red		-	4	4.92	187
HALOGENATED AROMATICS [4 chemicals]						
	3-chloro-4-fluoronitrobenzene		98	6	1.67	188
	m-chloronitrobenzene	[S]	99.6	3	0	189
	fluorobenzene		99.7	3	0.11	190
	2-fluorotoluene		99.8	3	0.11	191
HYDROCARBONS (unsaturated) [4 chemicals]						
	cis-cyclooctene		95	6	1.89	192
	1,9-decadiene		97	3	3.0	193
	1,5-hexadiene		97	3	0	194
	1,13-tetradecadiene		97	4	1.67	195
INORGANICS - [2 chemicals]						
	sodium bisulphite	[S]	>97	3	1.0	196
	sodium chlorite	34.5%	80	3	0.33	197
KETONES - [5 chemicals]						
M	benzyl acetone		99.3	4	1.21	198
M	diacetyl		98.3	4	0.63	199
M	cis-Jasmone		>98	4	2.58	200
M	isolongifolene ketone		90.0	4	3.0	201
M	methyl lavender ketone		>98	4	3.79	202
NITRILES - [2 chemicals]						
	2,3-dichloropropionitrile		96.3	3	2.0	203
	3-diethylaminopropionitrile		99.8	3	0	204

		Conc/Time Tested	Purity(%)	N	PII	Page
PHENOLIC DERIVATIVES - [6 chemicals]						
M	Carvacrol		100	4	>4	205
	2-tertiarybutyl phenol		99	6	5.67	206
M	eugenol		99.9	4	2.92	207
M	guaiacol (o-methoxyphenol)		99.4	4	2.38	208
	4,4-methylene bis(2,6-ditertiary butyl phenol)		98	3	0	209
M	p-tolyl alcohol (p-methyl phenol)	[S]	-	4	0.04	210
S-CONTAINING COMPOUNDS - [6 chemicals]						
	dimethyl disulphide		99.0	6	3.0	211
	di-n-propyl disulphide		99.2	3	2.56	212
	3,3'-dithiodipropionic acid	[S]	99	3	0	213
	2-mercaptoethanol, Na salt (1.08ml of 45.21% aq.)	3min	99	6	-	214
	3-mercapto-1-propanol		99.6	6	1.11	215
	4-(methylthio)benzaldehyde		98.2	3	0.89	216
SOAPS/SURFACTANTS - [4 chemicals, 5 tests]						
	soap from 20/80 coconut/tallow	[S]	-	3	2.11	217
	soap from 20/80 coconut/palm	[S]	-	3	2.67	218
M	sodium lauryl sulphate	50%	94.8	3	6.0	219
M	sodium lauryl sulphate	20%	94.8	3	6.78	220
	undecylenate acid, Na salt	33.2%	-	3	1.67	221
TRIGLYCERIDES - [2 chemicals]						
	glycerol tri-isostearate		-	3	0.67	222
	glycerol triundecanoate	[S]	99.7	3	0	223
MISCELLANEOUS - [9 chemicals, 10 tests]						
	4-amino-1,2,4-triazole	[S]	96.7	6	0	224
M	beechwood creosote		-	4	>5	225
M	6-butyl-2,4-dimethyldihydropyrane		83.0	4	2.04	226
M	n-decyldene methyl anthranilate		-	4	2.08	227
M	2,6-dimethyl-2,4,6-octatriene		>95	4	3.0	228
M	1-formyl-1-methyl-4(4-methyl-3-pentene-1-yl)- 3-cyclohexene		99.8	4	3.29	229
M	d-limonene [1]		98.8	3	3.56	230
M	d-limonene [2]		98.8	4	3.25	231
M	linalool oxide		97.2	4	2.58	232
M	Tonalid	[S]	>97	3	0	233

Table A2. INDEX IN ORDER OF PRIMARY IRRITATION INDEX (PII)

PI = Primary Irritation Index
 N = number of animals
 M = tested in multi-patch study
 [S] = solid, tested with chemical or patch moistened with water

PII RANGE: ZERO

Number of Chemicals: 19

			Conc. Tested	Time Tested	PII	N	Page
	4-amino-1,2,4-triazole	[S]			0	6	224
M	benzyl benzoate [1]				0	3	131
	1-bromo-4-chlorobutane				0	3	114
	m-chloronitrobenzene	[S]			0	3	189
M	cinnamyl alcohol [1]	[S]			0	3	29
	3-diethylaminopropionitrile				0	3	204
M	diethyl phthalate [1]				0	3	138
	2,6-dimethyl-4-heptanol				0	3	37
	2,4-dinitro-N-methylaniline	[S]			0	3	102
M	dipropylene glycol [2]				0	4	39
	3,3'-dithiodipropionic acid	[S]			0	3	213
	erucamide	[S]			0	3	96
	glycerol triundecanoate	[S]			0	3	223
	1,5-hexadiene				0	3	194
	hydrogenated tallow propylene diamine	[S]			0	6	107
	methyltrimethyl acetate				0	3	160
	4,4'-methylene bis(2,6-ditertiarybutylphenol)				0	3	209
	phenethyl bromide				0	3	122
M	Tonalid	[S]			0	3	233

PII RANGE: 0.01- <1

Number of Chemicals: 28

M	p-tolyl alcohol (p-methylphenol)	[S]			0.04	4	210
	fluorobenzene				0.11	3	190
	2-fluorotoluene				0.11	3	191
	isopropylisostearate				0.11	3	163
	sodium bicarbonate	[S]	0.3g		0.11	3	92
M	isobutyraldehyde				0.13	4	60
M	diethyl phthalate [2]				0.17	4	139
	ethyltriglycol methacrylate				0.22	3	23
M	benzyl salicylate [1]				0.33	3	133
	1-bromo-4-fluorobenzene				0.33	3	116
M	dipropylene glycol [1]				0.33	3	38
	sodium chlorite		34.5%		0.33	3	197
M	allyl phenoxylacetate				0.38	4	128
	lauric acid	[S]			0.44	3	173
M	cinnamyl alcohol [2]	[S]			0.5	4	30
	ethyl trimethyl acetate				0.5	6	145
	2-ethylhexylpalmitate				0.56	3	143
	ethylthioethylmethacrylate				0.56	3	24
M	diacetyl				0.63	4	199
	glycerol tri-isostearate				0.67	3	222
M	methyl-2-methylbutyrate				0.67	4	157
M	benzyl salicylate [2]				0.75	4	134
M	isopropanol				0.78	3	54
M	benzyl acetate [2]				0.83	4	130
	1,6-dibromohexane				0.89	3	120
	4-(methylthio)-benzaldehyde				0.89	3	216
M	hydroxycitronellal [2]				0.92	4	78
M	phenylethyl alcohol [2]				0.92	4	53

		Conc. Tested	Time Tested	PII	N	Page
PII: RANGE 1.0 - <2						
Number of Chemicals: 29						
	sodium bisulphite	[S]		1.0	3	196
	n-butyl propionate			1.08	4	137
M	hydroxycitronellal [1]			1.11	3	77
	3-mercapto-1-propanol			1.11	6	215
M	ethyl tiglate			1.17	4	144
M	benzyl acetone			1.21	4	198
M	dimethylbenzylcarbonylacetate [1]	[S]		1.22	3	140
	isopropyl myristate			1.22	3	161
M	sodium metasilicate		10%	1.22	3	94
M	alpha-lonol			1.33	4	45
M	dimethylbenzylcarbonylacetate [2]	[S]		1.39	6	141
	2-bromopropane			1.44	3	119
	isopropyl palmitate			1.44	3	162
	2,4-xylidine			1.44	3	111
M	benzyl acetate [1]			1.56	3	129
M	benzyl alcohol [1]			1.56	3	27
M	benzyl benzoate [2]			1.58	4	132
M	2-methyl-4-phenyl-2-butanol			1.58	4	51
	3-chloro-4-fluoronitrobenzene			1.67	6	188
	2-ethoxyethyl methacrylate			1.67	3	25
	2-ethylhexylcocoate			1.67	3	142
	sodium undecylenate		33.2%	1.67	3	221
	1,13-tetradecadiene			1.67	4	195
M	cinnamon leaf oil			1.71	4	178
M	heptyl butyrate			1.75	4	147
M	benzyl alcohol [2]			1.83	4	28
M	beta-lonol			1.88	4	46
	cis-cyclooctene			1.89	6	192
	1,3-dibromopropane			1.89	3	121

PII RANGE: 2 - <3

Number of Chemicals: 38

	2,3-dichloropropionitrile			2.0	3	203
M	dihydromercenol [2]			2.0	4	36
M	6-butyl-2,4-dimethyldihydropyran			2.04	4	226
M	n-decylidene methyl anthranilate			2.08	4	227
M	Linalol (= Linalool) [3]			2.08	4	49
	methyl stearate			2.11	3	159
	soap from 20/80 coconut/tallow	[S]		2.11	3	217
M	allyl heptanoate			2.13	4	127
M	phenylethyl alcohol [1]			2.22	3	52
M	1,4-cineole (eucalyptol)			2.25	4	167
M	geranyl dihydrolinalool			2.25	4	43
M	p-isopropylphenylacetaldehyde			2.29	4	85
	1-bromo-2-chloroethane			2.33	3	115
M	sodium carbonate		50%	2.33	3	93
M	guaiacol (o-methoxyphenol)			2.38	4	208
M	p-tert-butyl dihydrocinnamaldehyde			2.42	4	59
M	2,5-methylene-6-propyl-3-cyclohexencarbaldehyde			2.42	4	82
M	perilla oil			2.42	4	183
M	10-undecenoic acid			2.42	4	22
	2-bromobutane			2.44	3	113
M	salicylaldehyde			2.54	4	86
	di-n-propyl disulphide			2.56	3	212
	isostearyl alcohol			2.56	3	55
M	tetrahydrogeranial			2.58	4	87
M	alpha-hexyl cinnamic aldehyde [3]			2.58	4	76
M	cis-Jasmone			2.58	4	200

			Conc. Tested	Time Tested	PII	N	Page
M	linalool oxide				2.58	4	232
	soap from 20/80 coconut/palm	[S]			2.67	3	218
	tallow polypropylene polyamine	[S]		3min	2.67	3	108
M	2,4-dimethyltetrahydrobenzaldehyde				2.75	4	70
M	α terpinyl acetate [3]				2.75	4	166
	methyl caproate				2.78	3	154
M	pimenta leaf (allspice) oil				2.79	4	184
M	3-methylbutyraldehyde				2.83	4	81
M	eugenol				2.92	4	207
M	geraniol [3]				2.92	4	42
M	linalyl acetate [2]				2.92	4	153
M	2-phenylpropionaldehyde				2.92	4	84

PII RANGE: 3.0 - <4

Number of Chemicals: 42

	1,9-decadiene				3.0	3	193
	dimethyl disulphide				3.0	6	211
M	2,6-dimethyl-2,4,6-octatriene				3.0	4	228
M	parsley herb oil				3.0	4	182
M	isolongifolene ketone				3.0	4	201
	methyl linoleate				3.11	3	156
M	tagetes oil				3.13	4	185
M	2,4-dimethyl-3-cyclohexen-1-carboxaldehyde				3.21	4	68
M	d-limonene [2]				3.25	4	231
M	1-formyl-1-methyl-4(4-methyl-3-pentyl-1-yl)-3-cyclohexene				3.29	4	229
M	p-mentha-1,8-dien-7-ol				3.29	4	50
M	4-tricyclo-decylindene-8-butanol				3.29	4	88
M	1-decanol				3.33	4	34
M	geraniol [2]				3.33	4	41
M	hexyl salicylate [4]				3.33	4	151
M	Linalol (= Linalool) [1]				3.33	3	47
M	cyclamen aldehyde [4]				3.42	4	66
M	Linalol (= Linalool) [2]				3.42	4	48
M	hexyl salicylate [1]				3.44	3	148
M	nonanal				3.46	4	83
M	isobornyl acetate [2]				3.5	4	136
	hydrogenated tallowamine	[S]			3.56	3	106
M	d-limonene [1]				3.56	3	230
M	α terpinyl acetate [1]				3.56	3	164
M	Lilestralis/Lilial [2]				3.58	4	80
M	citrathal				3.63	4	62
M	Tea tree oil				3.63	4	186
M	dl-citronellol [3]				3.67	4	33
M	dihydromercenol [1]				3.67	3	35
M	geraniol [1]				3.67	3	40
M	hexyl salicylate [2]				3.67	4	149
M	linalyl acetate [1]				3.67	3	152
	oleyl propylenediamine dioleate				3.67	3	105
	sodium metasilicate		50%		3.67	3	95
M	cinnamaldehyde				3.71	4	61
M	3,7-dimethyl-2,6-nonadien-1-al				3.75	4	69
	70/30 oleine/caprylic acid				3.78	3	174
M	methyl lavender ketone				3.79	4	202
M	2-ethylhexanal				3.88	4	71
M	Litsea Cubaba oil				3.88	4	180
M	isobornyl acetate [1]				3.89	3	135
	methyl laurate				3.89	3	155

		Conc. Tested	Time Tested	PII	N	Page
PII RANGE: 4.0 - <5						
Number of Chemicals: 27						
M	Carvacrol			>4	4	205
M	2-methylbutyric acid			>4	4	21
M	origanum oil			>4	4	181
	1-bromohexane			4.0	3	117
M	dl-citronellol [2]			4.0	4	32
M	alphahexyl cinnamic aldehyde [1]			4.0	3	74
M	alphahexyl cinnamic aldehyde [2]			4.0	4	75
M	alphaterpineol [3]			4.0	4	58
	methacrolein			4.11	3	89
	tallow polypropylene polyamine	[S]	1hr	4.11	3	109
M	cyclamen aldehyde [2]			4.17	4	64
M	hexyl salicylate [3]			4.17	4	150
M	dl-citronellol [1]			4.22	3	31
M	clove leaf oil			4.29	4	179
M	geranyl linalool			4.29	4	44
	isostearic acid			4.33	3	177
M	α terpinyl acetate [2]			4.33	4	165
	1-bromopentane			4.44	3	118
	caprylic acid			4.44	3	168
M	alphaterpineol [1]			4.44	3	56
M	Lilestralis/Lilial [1]			4.56	3	79
	methyl palmitate			4.56	3	158
	90/10 oleine/caprylic acid			4.67	3	176
M	alphaterpineol [2]			4.75	4	57
M	2,4-decadienal			4.79	4	67
M	cyclamen aldehyde [3]			4.83	4	65
M	thyme oil, red			4.92	4	187
PII RANGE: 5 and above						
Number of Chemicals: 21						
M	beechwood creosote			>5	4	225
M	heptanal			5.0	4	72
	55/45 caprylic/capric acids			5.11	3	169
M	cyclamen aldehyde [1]			5.11	3	63
	dimethyl-n-butylamine			5.11	6	99
M	potassium hydroxide	5%		5.22	3	90
	1,1,1-trichloroethane			5.22	3	125
M	63/35 caprylic/capric acids			5.33	3	172
	trichloroethylene			5.44	3	126
	dimethylisopropylamine			5.61	6	100
	2-tertiarybutyl phenol			5.67	6	206
	dichloromethane			5.67	3	123
	tetrachloroethylene			5.67	3	124
M	sodium lauryl sulphate	50%		6.0	3	219
	n-heptylamine			6.67	6	103
	methoxy-3-propylamine			6.67	6	104
	80/20 oleine/caprylic acid			6.67	3	175
M	sodium lauryl sulphate	20%		6.78	3	220
M	2,4-hexadienal			7.08	4	73
	allyl bromide	4hr		7.17	2	112
	glycolbromoacetate	85%		7.67	1	146

		Conc. Tested	Time Tested	PII	N	Page
PII RANGE: NOT POSSIBLE TO CALCULATE						
Number of Chemicals: 11						
			3min	[<3]	1	112
				-	3	170
				-	3	171
				-	1	97
				-	3	98
			3min	-	1	101
			4hr	-	3	101
			3min	-	6	214
				-	3	26
M		10%		-	3	91
		[S]	3min	-	3	110

Of the 215 tests, 22 (19 different chemicals) tests were carried out on undiluted solids; 10 other materials were tested as aqueous solutions; the remainder were liquids, tested undiluted. Rabbits were exposed to 5 test materials using patches for 3 minutes; 3 of these chemicals were retested, 2 under patches for 4 hours, 1 for 1 hour. All other test materials were assessed using patches for 4 hours.

Numbers of tests falling into each PII range were:

PII Range	No of Tests
0	19
0-<1	28
1-<2	29
2-<3	38
3-<4	42
4-<5	27
>5	21
Not calculable	11
Total	215

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2-METHYL BUTYRIC ACID CONCENTRATION TESTED : 100%

SOURCE : Firmenich VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 116-53-0 EXPOSURE TIME : 4 hours

Purity >95%

Spec. No. 63608

ANIMAL No.	1h	OBSERVATION				INTERVAL (days)	
		1d	2d	3d	7d		
ERYTHEMA	2	2GB	2	2	4		
OEDEMA	3	-	-	-	-		
OBSERVATIONS	W#	WGB#	B#	B#	E		

ANIMAL No.	2						
ERYTHEMA	2	2	2S	3.5	4		
OEDEMA	4	3	3	2.5			
OBSERVATIONS					E		

ANIMAL No.	3						
ERYTHEMA	2	2	2	2	4		
OEDEMA	2.5W	2.5	1.5	2	-		
OBSERVATIONS	W	G	D	D	D		

ANIMAL No.	4						
ERYTHEMA	2	2	2	3	4		
OEDEMA	4	4	2.5	2.5	-		
OBSERVATIONS		WY	Y	Y			

Areas of discolouration: W = white, G = green, B = black, Y = yellow, D = dark.

= irritation assessed at boundary

E = eschar

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = >4$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 10-UNDECENOIC ACID CONCENTRATION TESTED : 100%

SOURCE : IFF VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 112-38-9 EXPOSURE TIME : 4 hours

Purity 98.8%

Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	1.5	2	1.5	0		
OEDEMA		0.5	0.5	0.5	0.5	0		
OBSERVATIONS		De						

ANIMAL No.	2							
ERYTHEMA		0.5	2	2	2	0.5		
OEDEMA		0.5	1	1.5	1	0		
OBSERVATIONS		De*						

ANIMAL No.	3							
ERYTHEMA		1	2	2	2	0.5		
OEDEMA		0.5	0.5	0.5	0.5	0		
OBSERVATIONS		Dem		Dem		De		

ANIMAL No.	4							
ERYTHEMA		0.5	2	1.5	1.5	0.5		
OEDEMA		0.5	0.5	0	0	0		
OBSERVATIONS		Dem		De*				

De = DESQUAMATION FROM THE SKIN (De* = MARKED
m = MINIMAL)

PRIMARY
IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 2.42$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : ETHYLTRIGLYCOL CONCENTRATION TESTED : 100%
METHACRYLATE

SOURCE : ELF ATOCHEM VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 36670-09-2
Purity 96.1%

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
1								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
2								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
3								
	ERYTHEMA	0	1	1	0			
	OEDEMA	0	0	0	0			

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.22$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : ETHYLTHIOETHYL METHACRYLATE CONCENTRATION TESTED : 100%

SOURCE : ELF ATOCHEM VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : CAS No. 14216-25-2 EXPOSURE TIME : 4 hours
Purity 99.7%

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	5d	6d	7d
ERYTHEMA		1	0	0	0			
OEDEMA		0	0	0	0			

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	5d	6d	7d
ERYTHEMA		1	1	1	0	0	0	
OEDEMA		0	0	0	0	0	0	
OBSERVATIONS					Dr	Dr		

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	5d	6d	7d
ERYTHEMA		1	1	1	1	0	0	0
OEDEMA		0	0	0	0	0	0	0
OBSERVATIONS					Dr	Dr	Dr	

Dr = DRYNESS OF THE SKIN

PRIMARY
IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.56$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2-ETHOXYETHYL METHACRYLATE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 2370-63-0 EXPOSURE TIME : 4 hours

Purity 99.8%

Product No. 28,066-6

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	4d	5d	6d
1	ERYTHEMA	0	1	1	1	0		
	OEDEMA	0	0	0	0	0		
2	ERYTHEMA	1	2	2	1	0		
	OEDEMA	0	0	0	0	0		
3	ERYTHEMA	1	2	2	2	1	0	0
	OEDEMA	0	0	0	0	0	0	0
	OBSERVATIONS				Dr	Dr	Dr	

Dr = DRYNESS OF THE SKIN

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.56$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2-METHOXYETHYL ACRYLATE CONCENTRATION TESTED : 100%

SOURCE : ELF ATOCHEM VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 3121-61-7 EXPOSURE TIME : 4 hours

Purity 99.6%

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	9d	14d
ERYTHEMA		4	4	4	Ne	CrDe	Cr	Cr
OEDEMA		4	4	4	4	0	0	0
OBSERVATIONS			Ne	Ne				

ANIMAL No.	2							
		1h	1d	2d	3d	7d	9d	14d
ERYTHEMA		4	4	4	Ne	CrDe	Cr	Cr
OEDEMA		4	4	4	4	0	0	0
OBSERVATIONS			Ne	Ne				

ANIMAL No.	3							
		1h	1d	2d	3d	7d	9d	14d
ERYTHEMA		4	4	3	2	1	0	0
OEDEMA		4	4	4	0	0	0	0
OBSERVATIONS						De	De	De

Ne = SUPERFICIAL NECROSIS

De = DESQUAMATION

Cr = CRUST

PRIMARY
IRRITATION = NOT POSSIBLE TO CALCULATE
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : BENZYL ALCOHOL [1] CONCENTRATION TESTED : 100%
 SOURCE : FIRMENICH VOLUME TESTED : 0.5ml
 No. OF RABBITS : THREE
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 100-51-6
 Purity >99%
 Spec. No. 05377

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	1	1	
OEDEMA		0	1	0	0	0	
OBSERVATIONS		De*					

ANIMAL No.	2						
		1h	1d	2d	3d	7d	
ERYTHEMA		1	1	1	1	1	
OEDEMA		0	0	0	0	0	
OBSERVATIONS		Dvs		Dvs	De		

ANIMAL No.	3						
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	1	1	0	
OEDEMA		0	1	0	0	0	
OBSERVATIONS		Des		Des	Des		

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED
 Des = SLIGHT
 Dvs = VERY SLIGHT)

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.56$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : BENZYL ALCOHOL [2] CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 100-51-6 EXPOSURE TIME : 4 hours

Purity >99%

Spec. No. 05377

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		0	1	1	1	0	
OEDEMA		0	0	0	0	0	

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	1	2	2	1	
OEDEMA		0	1	1	0	0	

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		0	1	1	1	0	
OEDEMA		0	1	0	0	0	
OBSERVATIONS			Des	Des	Des	Des	

ANIMAL No.	4	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1	
OEDEMA		1	1	1	0	0	

Des = SLIGHT DESQUAMATION FROM SKIN SURFACE

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.83$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : CINNAMYL ALCOHOL [1] CONCENTRATION TESTED : 100%
SOURCE : GIVAUDAN-ROURE WEIGHT TESTED : 0.5g
No. OF RABBITS : THREE
SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 104-54-1
Purity 98.9%
Spec. No. 1173001

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	0	0	0	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	0	0	0	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	0	0	0	0		
OEDEMA		0	0	0	0	0		

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 0$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : CINNAMYL ALCOHOL [2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE WEIGHT TESTED : 0.5g

SPECIFICATION : No. OF RABBITS : SIX

CAS No. 104-54-1 EXPOSURE TIME : 4 hours

Purity 98.9%

Spec. No. 1173001

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		0	0	0	0	0	
OEDEMA		0	0	0	0	0	

ANIMAL No.	2						
ERYTHEMA		0	0	0	0	0	
OEDEMA		0	0	0	0	0	

ANIMAL No.	3						
ERYTHEMA		0	1	1	1	0	
OEDEMA		0	0	0	0	0	

ANIMAL No.	4						
ERYTHEMA		2	2	1	1	1	
OEDEMA		0	1	0	0	0	
OBSERVATIONS		Dvs					

ANIMAL No.	5						
ERYTHEMA		0	0	1	0	0	
OEDEMA		0	0	0	0	0	

ANIMAL No.	6						
ERYTHEMA		0	0	0	0	0	
OEDEMA		0	0	0	0	0	

Dvs = VERY SLIGHT DESQUAMATION FROM THE SKIN

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.5$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : dl-CITRONELLOL [1] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 106-22-9 EXPOSURE TIME : 4 hours

Purity 98.7%

Spec. No. 4075001

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	2	
OEDEMA		2	2	2	2	2	
OBSERVATIONS		De*					

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	2	
OEDEMA		2	2	3	3	1	
OBSERVATIONS		De					

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	2	
OEDEMA		2	2	2	2	2	
OBSERVATIONS		De*					

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED)

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 4.22$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : dl-CITRONELLOL [2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 106-22-9 EXPOSURE TIME : 4 hours

Purity 98.7%

Spec. No. 4075001

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	2	
OEDEMA		2	3	3	2	1	
OBSERVATIONS		De					

ANIMAL No.	2						
ERYTHEMA		2	2	2	2	2	
OEDEMA		2	2	3	3	1	

ANIMAL No.	3						
ERYTHEMA		2	2	2	2	2	
OEDEMA		1	2	1	1	1	
OBSERVATIONS		De					

ANIMAL No.	4						
ERYTHEMA		1	2	2	2	1	
OEDEMA		1	1	1	2	1	
OBSERVATIONS		De					

De = DESQUAMATION FROM SKIN SURFACE

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.0$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : dl-CITRONELLOL [3] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 106-22-9 EXPOSURE TIME : 4 hours

Purity 98.7%

Spec. No. 4075001

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	1	
OEDEMA		1	2	2	2	1	

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	1	
OEDEMA		1	2	2	2	1	

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	0	
OEDEMA		1	2	1	1	0	
OBSERVATIONS				Des	Des	De*	

ANIMAL No.	4	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	2	
OEDEMA		1	2	1	1	2	
OBSERVATIONS						De*	

De* = MARKED DESQUAMATION FROM SKIN SURFACE (Des = SLIGHT)

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.67$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 1-DECANOL CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 112-30-1 EXPOSURE TIME : 4 hours

Purity 98.8%

Spec. No. 1140001

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	2	2.5	2.5	1		
OEDEMA		0.5	2	2	2	0		
OBSERVATIONS		De*						

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2.5	2.5	1		
OEDEMA		0	0.5	1	1	0		
OBSERVATIONS		De						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	2.5	2	2	2		
OEDEMA		0.5	1	1	1	0.5		
OBSERVATIONS		De						

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	1.5	2	2	2		
OEDEMA		0	0.5	1	1	0.5		
OBSERVATIONS		De						

De = DESQUAMATION FROM THE SKIN (De* = MARKED)

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.33$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DIHYDROMERCENOL # [1] CONCENTRATION TESTED : 100%
 SOURCE : FIRMENICH VOLUME TESTED : 0.5ml
 No. OF RABBITS : THREE
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 53219-21-9
 Purity >98%
 Spec. No. 38618

: synonym 2-methyl-6-methylene-7-octen-2-ol

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	2	
OEDEMA		1	1	1	1	0	
OBSERVATIONS		De*					

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	2	
OEDEMA		1	2	2	2	1	
OBSERVATIONS		De					

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1	
OEDEMA		1	2	2	2	1	
OBSERVATIONS		De*				De	

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED)

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.67$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DIHYDROMYRCENOL # [2] CONCENTRATION TESTED : 100%
 SOURCE : FIRMENICH VOLUME TESTED : 0.5ml
 No. OF RABBITS : FOUR
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 53219-21-9
 Purity >98%
 Spec. No. 38618

: synonym 2-methyl-6-methylene-7-octen-2-ol

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1		
OEDEMA		0	1	0	0	0		
OBSERVATIONS					Des	Des		

ANIMAL No.	2							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1	1	1	1		
OEDEMA		0	0	0	0	0		
OBSERVATIONS						De*		

ANIMAL No.	3							
		1h	1d	2d	3d	7d		
ERYTHEMA		0	1	1	1	0		
OEDEMA		0	1	0	0	0		
OBSERVATIONS					Des	De		

ANIMAL No.	4							
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		2	2	1	1	0		
OBSERVATIONS						De*		

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED
 Des = SLIGHT)

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.0$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2,6-DIMETHYL-4-HEPTANOL CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 108-82-7 EXPOSURE TIME : 4 hours

Purity 90%

Product No. 29,297-4

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DIPROPYLENE GLYCOL [1] CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 26265-71-8 EXPOSURE TIME : 4 hours

Purity >99%

Spec. No. 39416

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	1	1	1	1	0		
	OEDEMA	0	0	0	0	0		

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.33$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DIPROPYLENE GLYCOL [2] CONCENTRATION TESTED : 100%
SOURCE : FIRMENICH VOLUME TESTED : 0.5ml
No. OF RABBITS : FOUR
SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 25265-71-8
Purity >99%
Spec. No. 39416

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		0	0	0	0	0	
OEDEMA		0	0	0	0	0	

ANIMAL No.	2						
		1h	1d	2d	3d	7d	
ERYTHEMA		0	0	0	0	0	
OEDEMA		0	0	0	0	0	

ANIMAL No.	3						
		1h	1d	2d	3d	7d	
ERYTHEMA		0	0	0	0	0	
OEDEMA		0	0	0	0	0	

ANIMAL No.	4						
		1h	1d	2d	3d	7d	
ERYTHEMA		0	0	0	0	0	
OEDEMA		0	0	0	0	0	

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 0$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : GERANIOL [1] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 106-24-1 EXPOSURE TIME : 4 hours

Purity 90.7%

Spec. No. 5414003

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1	
OEDEMA		0	1	1	1	1	
OBSERVATIONS		De*					

ANIMAL No.	2						
ERYTHEMA		2	2	2	2	2	
OEDEMA		2	2	2	2	1	
OBSERVATIONS		De*					

ANIMAL No.	3						
ERYTHEMA		2	2	2	2	2	
OEDEMA		3	2	2	2	3	
OBSERVATIONS		De*					

De* = MARKED DESQUAMATION FROM SKIN SURFACE

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 3.67$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : GERANIOL [2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 106-24-1 EXPOSURE TIME : 4 hours

Purity 90.7%

Spec. No. 5414003

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	3	3	2	
OEDEMA		2	2	2	2	2	
OBSERVATIONS		Des					

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		0	2	2	2	1	
OEDEMA		1	1	2	2	0	
OBSERVATIONS		De*					

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	1	2	2	2	
OEDEMA		1	1	1	1	2	

ANIMAL No.	4	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1	
OEDEMA		2	0	0	1	1	
OBSERVATIONS		De*					

De* = MARKED DESQUAMATION FROM SKIN SURFACE (Des = SLIGHT)

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.33$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : GERANIOL [3] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 106-24-1 EXPOSURE TIME : 4 hours

Purity 90.7%

Spec. No. 5414003

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	1	1	
OEDEMA		2	0	1	1	0	
OBSERVATIONS		De*					

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1	
OEDEMA		1	1	1	1	0	
OBSERVATIONS		De*					

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1	
OEDEMA		1	1	1	1	0	
OBSERVATIONS		Des					

ANIMAL No.	4	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	0	
OEDEMA		0	2	1	1	0	
OBSERVATIONS		De*					

De* = MARKED DESQUAMATION FROM SKIN SURFACE (Des = SLIGHT)

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.92$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : GERANYL DIHYDROLINALOOL CONCENTRATION TESTED : 100%

SOURCE : BEDOUKIAN VOLUME TESTED : 0.5ml
No. OF RABBITS : FOUR

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 70851-60-4
Purity >90%
Spec. No. 418

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1.5	1.5	1.5	0		
OEDEMA		0	0.5	0.5	0.5	0		
OBSERVATIONS		De						

ANIMAL No.	2							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1.5	1	1.5	0.5		
OEDEMA		1	1.5	0.5	1.5	0		
OBSERVATIONS		Dem De						

ANIMAL No.	3							
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	1.5	1.5	1	0.5		
OEDEMA		1	1.5	1.5	0.5	0		
OBSERVATIONS		De De*						

ANIMAL No.	4							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	1.5	1	0		
OEDEMA		0	0.5	0.5	0.5	0		
OBSERVATIONS		Des De De Des						

De = DESQUAMATION FROM THE SKIN (De* = MARKED
Des = SLIGHT
Dem = MINIMAL)

PRIMARY
IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.25$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : GERANYL LINALOOL CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 1113-21-9 EXPOSURE TIME : 4 hours

Purity matches standard

Spec. No. 5469001

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	0.5		
OEDEMA		0.5	3	2	2	0		

ANIMAL No.	2							
ERYTHEMA		0.5	2	2	2	1		
OEDEMA		0	2.5	2.5	1.5	0.5		
OBSERVATIONS					Des	De		

ANIMAL No.	3							
ERYTHEMA		1.5	2	2.5	2.5	2		
OEDEMA		0.5	2.5	2.5	2.5	1		
OBSERVATIONS						De		

ANIMAL No.	4							
ERYTHEMA		1.5	2	2.5	2.5	2		
OEDEMA		0	1.5	1.5	1.5	1		
OBSERVATIONS						De		

De = DESQUAMATION FROM THE SKIN (Des = SLIGHT)

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 4.29$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : alpha-IONOL CONCENTRATION TESTED : 100%
 SOURCE : BEDOUKIAN VOLUME TESTED : 0.5ml
 No. OF RABBITS : FOUR
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 25312-34-9
 Purity 90-95%
 Spec. No. 260

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	1.5	0.5	1	0	
OEDEMA		1	1	0.5	0.5	0	
OBSERVATIONS		De					

ANIMAL No.	2						
ERYTHEMA		1	1	1	1	0.5	
OEDEMA		1	1.5	0.5	0.5	0	

ANIMAL No.	3						
ERYTHEMA		1	1	1	0.5	0	
OEDEMA		0	0	0.5	0	0	
OBSERVATIONS		Dem		Dem			

ANIMAL No.	4						
ERYTHEMA		0	1.5	0.5	0.5	0	
OEDEMA		0	0	0	0	0	
OBSERVATIONS		Dem		Des			

Des = SLIGHT DESQUAMATION FROM THE SKIN (Dem = MINIMAL)

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.33$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : beta-IONOL CONCENTRATION TESTED : 100%

SOURCE : BEDOUKIAN VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 22029-76-1 EXPOSURE TIME : 4 hours

Purity 93.4%

Spec. No. 265

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	1.5	1	1	0		
OEDEMA		0	1	0.5	0	0		
OBSERVATIONS		De						

ANIMAL No.	2							
ERYTHEMA		0	1	1	1.5	0		
OEDEMA		1	1	1	0.5	0		
OBSERVATIONS		Dem						

ANIMAL No.	3							
ERYTHEMA		1	1.5	1.5	1	0.5		
OEDEMA		1	1.5	1	0.5	0		
OBSERVATIONS		De			De			

ANIMAL No.	4							
ERYTHEMA		0	1.5	1	0.5	0		
OEDEMA		0	0.5	0.5	0.5	0		
OBSERVATIONS		Des						

De = DESQUAMATION FROM THE SKIN (Des = SLIGHT
m = MINIMAL)

PRIMARY
IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.88$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : LINALOL [1] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 78-70-6 EXPOSURE TIME : 4 hours

Purity 97.1%

Spec. No. 6623501

		OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ANIMAL No.	1						
ERYTHEMA		2	2	2	2	2	
OEDEMA		2	2	2	2	2	
OBSERVATIONS		De					

ANIMAL No.	2							
ERYTHEMA		1	2	2	2	2		
OEDEMA		1	2	1	1	1		
OBSERVATIONS		De						

ANIMAL No.	3							
ERYTHEMA		1	2	2	1	0		
OEDEMA		0	1	1	1	1		
OBSERVATIONS		De De* De*						

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED)

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.33$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : LINALOL [2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 78-70-6 EXPOSURE TIME : 4 hours

Purity 97.1%

Spec. No. 6623501

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		1	2	2	1	2		
OBSERVATIONS		De*						

ANIMAL No.	2							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1		
OEDEMA		1	2	2	1	0		
OBSERVATIONS		De*						

ANIMAL No.	3							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	2		
OEDEMA		2	1	1	1	1		
OBSERVATIONS		Des	Des	Des	Des			

ANIMAL No.	4							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1		
OEDEMA		1	2	1	1	1		
OBSERVATIONS		De						

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED
Des = SLIGHT)

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.42$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : LINALOOL [3] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 78-70-6 EXPOSURE TIME : 4 hours

Purity 97.1%

Spec. No. 6623501

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	1	1	1	0		
OEDEMA		0	0	0	0	0		
OBSERVATIONS					Des	Des		

ANIMAL No.	2							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1		
OEDEMA		0	1	1	1	0		
OBSERVATIONS						De*		

ANIMAL No.	3							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	0		
OEDEMA		0	0	1	1	0		
OBSERVATIONS						Des		

ANIMAL No.	4							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	1	0		
OEDEMA		0	0	0	0	0		
OBSERVATIONS						Des		

De* = MARKED DESQUAMATION FROM SKIN SURFACE (Des = SLIGHT)

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.08$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : p-MENTHA-1,8-DIEN-7-OL CONCENTRATION TESTED : 100%

SOURCE : IFF VOLUME TESTED : 0.5ml
No. OF RABBITS : FOUR

SPECIFICATION : CAS No. 536-59-4 EXPOSURE TIME : 4 hours
Purity 94.6%

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1.5	2	2	2	1.5	
OEDEMA		0.5	0.5	1	1	0.5	
OBSERVATIONS		Des					

ANIMAL No.	2						
		1h	1d	2d	3d	7d	
ERYTHEMA		1.5	2	2	2	2	
OEDEMA		1	2.5	2	1.5	0.5	
OBSERVATIONS		De*					

ANIMAL No.	3						
		1h	1d	2d	3d	7d	
ERYTHEMA		1	1.5	2	2	1.5	
OEDEMA		0.5	0.5	1.5	2	2	
OBSERVATIONS		De					

ANIMAL No.	4						
		1h	1d	2d	3d	7d	
ERYTHEMA		1.5	2	2	2	2	
OEDEMA		1.5	1.5	1	1	0.5	
OBSERVATIONS		De					

De = DESQUAMATION FROM THE SKIN (De* = MARKED
Des = SLIGHT)

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.29$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2-METHYL-4-PHENYL-2-BUTANOL CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml
No. OF RABBITS : FOUR

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 103-05-9
Purity 100%
Spec. No. 4596003

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	1	1.5	2	1.5		
OEDEMA		0	0.5	0.5	1	0.5		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	2	2	1	0		
OEDEMA		0	0.5	0	0	0		
OBSERVATIONS				Dem	Des	De		

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	1	1	1	0		
OEDEMA		0	0.5	0	0	0		

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	0.5	1	1	0.5		
OEDEMA		0	0	0.5	0.5	0		

De = DESQUAMATION FROM THE SKIN (Des = SLIGHT
Dem = MINIMAL)

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.58$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : PHENYLETHYL ALCOHOL [1] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 60-12-8 EXPOSURE TIME : 4 hours

Purity 99.6%

Spec. No. 1246003

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	1	2	1	1	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	1	2	1	1	1		
	OEDEMA	1	1	1	1	0		
3								
	ERYTHEMA	2	2	2	2	0		
	OEDEMA	1	1	1	1	0		

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.22$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : PHENYLETHYL ALCOHOL [2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 60-12-8 EXPOSURE TIME : 4 hours

Purity 99.6%

Spec. No. 1246003

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1	1	1	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1	1	1	0		
OEDEMA		0	1	1	0	0		
OBSERVATIONS		Des						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	1	1	0	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1	0	0	0		
OEDEMA		0	0	0	0	0		

Des = SLIGHT DESQUAMATION FROM THE SKIN

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.92$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : isoPROPANOL CONCENTRATION TESTED : 100%

SOURCE : VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 67-63-0 EXPOSURE TIME : 4 hours

Purity 100%

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		4½h	1d	2d	3d			
ERYTHEMA		1	2	2	1			
OEDEMA		0	0	0	0			

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		4½h	1d	2d	3d			
ERYTHEMA		1	1	0	0			
OEDEMA		0	0	0	0			

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		4½h	1d	2d	3d			
ERYTHEMA		1	1	0	0			
OEDEMA		0	0	0	0			

PRIMARY

$$\text{IRRITATION INDEX} = \frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.78$$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : isoSTEARYL ALCOHOL CONCENTRATION TESTED : 100%

SOURCE : UNICHEMA INTERNATIONAL VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 27458-93-1 EXPOSURE TIME : 4 hours

Purity -

Trade name PRISORINE 3515

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	6d		
ERYTHEMA		2	2	2	1	0		
OEDEMA		2	2	1	0	0		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	6d		
ERYTHEMA		2	2	1	1	0		
OEDEMA		2	2	1	0	0		

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	6d		
ERYTHEMA		2	2	2	1	0		
OEDEMA		2	2	1	0	0		

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 2.56$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : alphaTERPINEOL [1] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 98-55-5 EXPOSURE TIME : 4 hours

Purity 98.4%

Spec. No. 9217001

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	1	2	2	1		
OEDEMA		1	2	2	2	1		
OBSERVATIONS		De*						

ANIMAL No.	2							
ERYTHEMA		2	2	2	2	2		
OEDEMA		2	3	2	2	1		
OBSERVATIONS		De*						

ANIMAL No.	3							
ERYTHEMA		2	2	2	3	3		
OEDEMA		2	3	3	3	3		
OBSERVATIONS		TDe*						

De* = MARKED DESQUAMATION FROM SKIN SURFACE

TDe* = THICKENING AND MARKED DESQUAMATION FROM SKIN SURFACE

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.44$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : alphaTERPINEOL [2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 98-55-5 EXPOSURE TIME : 4 hours

Purity 98.4%

Spec. No. 9217001

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	2	
OEDEMA		2	3	3	3	1	
OBSERVATIONS		Des					

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	3	3	2	
OEDEMA		3	3	3	3	3	
OBSERVATIONS		De*					

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	2	
OEDEMA		2	3	2	3	3	
OBSERVATIONS		De*					

ANIMAL No.	4	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1	
OEDEMA		2	2	2	1	0	
OBSERVATIONS		De*					

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED
Des= SLIGHT)

PRIMARY
IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animal s}} = 4.75$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : alphaTERPINEOL [3] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 98-55-5 EXPOSURE TIME : 4 hours

Purity 98.4%

Spec. No. 9217001

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	1	
OEDEMA		2	3	3	2	0	
OBSERVATIONS		Des					

ANIMAL No.	2						
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	2	
OEDEMA		2	2	2	2	2	
OBSERVATIONS		Des					

ANIMAL No.	3						
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	1	0	
OEDEMA		0	1	1	0	0	
OBSERVATIONS		Des		Des	Des	Des	

ANIMAL No.	4						
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	1	
OEDEMA		1	3	3	3	1	
OBSERVATIONS		De*					

De* = MARKED DESQUAMATION FROM SKIN SURFACE (Des = SLIGHT)

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.0$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : paratertiaryBUTYL DIHYDROCINNAMALDEHYDE CONCENTRATION TESTED : 100%

SOURCE : QUEST VOLUME TESTED : 0.5ml
No. OF RABBITS : FOUR

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 18127-01-0
Purity 95.0
Spec. No. 02759

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	0.5	1.5	0.5	0.5		
OEDEMA		0	0	0	0	0		

ANIMAL No.	2							
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	2	2	2	1.5		
OEDEMA		0.5	2	1	0.5	0		
OBSERVATIONS		De*						

ANIMAL No.	3							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1		
OEDEMA		0	1.5	1.5	1.5	0		
OBSERVATIONS		De*						

ANIMAL No.	4							
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	2	1.5	1	0.5		
OEDEMA		0	1.5	0.5	0	0		
OBSERVATIONS		De						

De = DESQUAMATION FROM TREATED SKIN (De* = MARKED)

THE TREATED SKIN WAS STAINED YELLOW IN ANIMALS 1 & 2 AT 24, 48, 72 hr READINGS

PRIMARY
IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.42$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : isoBUTYRALDEHYDE CONCENTRATION TESTED : 100%

SOURCE : IFF VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 78-84-2 EXPOSURE TIME : 4 hours

Purity 98%

Spec. No. -

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1	ERYTHEMA	0	0.5	0.5	0	0		
	OEDEMA	0.5	0	0	0	0		
2	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
3	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
4	ERYTHEMA	0.5	0.5	0	0	0		
	OEDEMA	0	0	0	0	0		

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.13$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : CINNAMALDEHYDE CONCENTRATION TESTED : 100%

SOURCE : IFF VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 104-55-2 EXPOSURE TIME : 4 hours

Purity 98.4%

Spec. No. -

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	2	2	2	2	1		
	OEDEMA	3	2	1.5	1.5	0.5		
2								
	ERYTHEMA	2	2	2	2	2		
	OEDEMA	4	2	1.5	1.5	1		
3								
	ERYTHEMA	2	2	2	2	DEAD		
	OEDEMA	4	2	1	1			
4								
	ERYTHEMA	2	2	2.5	2	2		
	OEDEMA	4	2	2.5	1.5	1		

YELLOW STAINING WAS OBSERVED IN ALL ANIMALS

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.71$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : CITRATHAL CONCENTRATION TESTED : 100%

SOURCE : QUEST VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 147060-73-9 EXPOSURE TIME : 4 hours

Purity -

Spec. No. 41415

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1.5		
OEDEMA		2	2.5	2.5	2.5	2.5		
OBSERVATIONS		De*						

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1		
OEDEMA		1	2	2	2	1.5		
OBSERVATIONS		De*						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	1.5	1		
OEDEMA		1	2	1.5	0.5	0.5		
OBSERVATIONS		De*						

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	2	2	2	0		
OEDEMA		2	1.5	0.5	0.5	0		
OBSERVATIONS		De						

De = DESQUAMATION FROM THE SKIN (De* = MARKED)

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.63$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : CYCLAMEN ALDEHYDE # [1] CONCENTRATION TESTED : 100%
 SOURCE : FIRMENICH VOLUME TESTED : 0.5ml
 No. OF RABBITS : THREE
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 103-95-7
 Purity >98
 Spec. No. 37174

: synonym for 2-methyl-3-(p-isopropylphenyl)propionaldehyde

ANIMAL No.	1h	OBSERVATION				INTERVAL (days)	
		1d	2d	3d	7d		
1							
ERYTHEMA	1	2	3	3	2		
OEDEMA	0	3	3	3	2		
OBSERVATIONS	De*						

ANIMAL No.	1h	OBSERVATION				INTERVAL (days)	
		1d	2d	3d	7d		
2							
ERYTHEMA	1	2	2	2	2		
OEDEMA	1	3	3	3	1		
OBSERVATIONS	De						

ANIMAL No.	1h	OBSERVATION				INTERVAL (days)	
		1d	2d	3d	7d		
3							
ERYTHEMA	1	2	2	2	2		
OEDEMA	1	2	3	3	1		
OBSERVATIONS	De						

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED)

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 5.11$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : CYCLAMEN ALDEHYDE # [2] CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 103-95-7 EXPOSURE TIME : 4 hours

Purity >98

Spec. No. 37174

: synonym for 2-methyl-3-(p-isopropylphenyl)propionaldehyde

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1		
OEDEMA		1	3	2	2	2		
OBSERVATIONS		De*						

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	2		
OEDEMA		2	2	3	3	1		
OBSERVATIONS		De*						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	2		
OEDEMA		2	2	2	2	2		

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1		
OEDEMA		1	2	2	1	0		
OBSERVATIONS		De						

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED)

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.17$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : CYCLAMEN ALDEHYDE # [3] CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 103-95-7 EXPOSURE TIME : 4 hours

Purity >98

Spec. No. 37174

: synonym for 2-methyl-3-(p-isopropylphenyl)propionaldehyde

ANIMAL No.	1	OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	2		
OEDEMA		0	2	3	3	2		
OBSERVATIONS		De*						

ANIMAL No.	2	OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1		
OEDEMA		0	2	3	3	1		
OBSERVATIONS		De*						

ANIMAL No.	3	OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1		
OEDEMA		1	3	2	2	0		
OBSERVATIONS		De*						

ANIMAL No.	4	OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	3	3	2		
OEDEMA		0	3	3	3	2		
OBSERVATIONS		De*						

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED)

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.83$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : CYCLAMEN ALDEHYDE # [4] CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 103-95-7 EXPOSURE TIME : 4 hours

Purity >98

Spec. No. 37174

: synonym for 2-methyl-3-(p-isopropylphenyl)propionaldehyde

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1	
OEDEMA		0	1	2	1	0	
OBSERVATIONS		De*					

ANIMAL No.	2						
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1	
OEDEMA		0	1	1	1	0	
OBSERVATIONS		De*					

ANIMAL No.	3						
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1	
OEDEMA		0	2	2	2	0	
OBSERVATIONS		Des		De*			

ANIMAL No.	4						
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	2	
OEDEMA		0	2	1	1	1	
OBSERVATIONS		De*					

De* = MARKED DESQUAMATION FROM SKIN SURFACE (Des = SLIGHT)

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.42$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2,4-DECADIENAL CONCENTRATION TESTED : 100%

SOURCE : IFF VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 2363-88-4 EXPOSURE TIME : 4 hours

Purity 96.5%

Spec. No. -

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1	ERYTHEMA	2	2	2	2	2.5		
	OEDEMA	2.5	2.5	2.5	1	1		
2	ERYTHEMA	2	2.5	2.5	2.5	3		
	OEDEMA	4	3	3	2.5	3		
3	ERYTHEMA	2	2	2	2	DEAD		
	OEDEMA	2.5	2.5	2.5	2			
4	ERYTHEMA	2	2.5	2.5	2.5	3		
	OEDEMA	3.5	3.5	3	2.5	2.5		

YELLOW STAINING WAS OBSERVED IN ALL ANIMALS

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.79$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2,4-DIMETHYL-3-CYCLO- CONCENTRATION TESTED : 100%
 HEXEN-1-CARBOXALDEHYDE

SOURCE : IFF VOLUME TESTED : 0.5ml
 No. OF RABBITS : FOUR

SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 68039-49-6
 Purity 99.0%
 Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1		
OEDEMA		0	1	1	0.5	0		
OBSERVATIONS		De*						

ANIMAL No.	2							
ERYTHEMA		1	2	2	2.5	1.5		
OEDEMA		2	1	1.5	1	0.5		

ANIMAL No.	3							
ERYTHEMA		2	2	2	2	1.5		
OEDEMA		2	1.5	1	1	0.5		

ANIMAL No.	4							
ERYTHEMA		2	2	2	2	2		
OEDEMA		2	2	1.5	1	0.5		
OBSERVATIONS		De*						

De* = MARKED DESQUAMATION FROM THE SKIN

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.21$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 3,7-DIMETHYL-2,6-NONADIEN-1-AL CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 41448-29-7 EXPOSURE TIME : 4 hours

Purity matches standard

Spec. No. 4941001

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	3		
OEDEMA		3	1.5	1.5	1.5	1.5		
OBSERVATIONS		De						

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		3.5	2	1.5	1	0.5		
OBSERVATIONS		De						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	3		
OEDEMA		4	1.5	2	2	2		

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2.5		
OEDEMA		3	2.5	2	2	1.5		

De = DESQUAMATION FROM THE SKIN

YELLOW STAINING WAS OBSERVED IN ALL ANIMALS

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.75$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2,4-DIMETHYL- TETRAHYDROBENZALDEHYDE CONCENTRATION TESTED : 100%

SOURCE : QUEST VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 68737-61-1 EXPOSURE TIME : 4 hours

Purity -

Spec. No. 05668

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	2	
OEDEMA		1.5	2	0.5	0	0.5	
OBSERVATIONS		De					

ANIMAL No.	2						
ERYTHEMA		0.5	1.5	1.5	1.5	0.5	
OEDEMA		0.5	0	0.5	0	0	
OBSERVATIONS		DesH					

ANIMAL No.	3						
ERYTHEMA		2	2	2	2	2	
OEDEMA		20.5	1.5	1	1	0.5	

ANIMAL No.	4						
ERYTHEMA		0.5	2	2	2	2Des	
OEDEMA		1	1	1.5	1.5	0.5	
OBSERVATIONS		Des					

De = DESQUAMATION FROM THE SKIN (Des = SLIGHT)

H = SKIN HARDENING

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.75$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2-ETHYLHEXANAL CONCENTRATION TESTED : 100%

SOURCE : IFF VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 123-05-7 EXPOSURE TIME : 4 hours

Purity -

Spec. No. -

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1	ERYTHEMA	1	2	2	2	1		
	OEDEMA	1.5	2.5	2.5	2.5	0		
	OBSERVATIONS	De*						
2	ERYTHEMA	0.5	2	2	2	1		
	OEDEMA	0.5	1.5	2	2	0		
	OBSERVATIONS	De*						
3	ERYTHEMA	1.5	2	2	2	0.5		
	OEDEMA	0.5	2.5	1.5	1	0		
	OBSERVATIONS	De*						
4	ERYTHEMA	1.5	2	2	2	0.5		
	OEDEMA	1	1.5	1.5	1.5	0		
	OBSERVATIONS	De*						

De* = MARKED DESQUAMATION FROM THE SKIN

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.88$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : HEPTANAL CONCENTRATION TESTED : 100%

SOURCE : IFF VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 111-71-7 EXPOSURE TIME : 4 hours

Purity 95.0%

Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	3.5	3.5	3.5	3.5		
OEDEMA		0.5	2	2	2	2		
OBSERVATIONS		De*						

ANIMAL No.	2							
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	3.5	3.5	3.5	3.5		
OEDEMA		1.5	2.5	2	1.5	1.5		
OBSERVATIONS		De						

ANIMAL No.	3							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	3	3H	3		
OEDEMA		1	3	2.5	2.5	2		
OBSERVATIONS		De*						

ANIMAL No.	4							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2.5	2.5		
OEDEMA		0.5	1.5	1.5	1.5	2		
OBSERVATIONS		De						

De = DESQUAMATION FROM THE SKIN (De* = MARKED)

H = SKIN HARDENED

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 5.0$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : t,t-2,4-HEXADIENAL CONCENTRATION TESTED : 100%

SOURCE : BEDOUKIAN VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 142-83-6 EXPOSURE TIME : 4 hours

Purity -

Spec. No. 360

ANIMAL No.	1h	OBSERVATION				INTERVAL (days)	
		1d	2d	3d	7d		
ERYTHEMA	2	3	4	4	4		
OEDEMA	4	3	3	4	2		
OBSERVATIONS	B	HB	HB	B			

ANIMAL No.	1h	1d	2d	3d	7d		
ERYTHEMA	2	3	4	4	4		
OEDEMA	4	4	4	4	-		
OBSERVATIONS	B	HB	B		Pi		

ANIMAL No.	1h	1d	2d	3d	7d		
ERYTHEMA	2.5	3	4	4	4		
OEDEMA	4	3	3	3	-		
OBSERVATIONS	B	B	B		Pi		

ANIMAL No.	1h	1d	2d	3d	7d		
ERYTHEMA	2	3	3	4	4		
OEDEMA	4	4	4	3	2		
OBSERVATIONS	B	HB	HB				

- = ASSESSMENT NOT POSSIBLE

H = SKIN HARDENED

B = THE TREATED SKIN WAS STAINED BROWN

Pi = TREATED SKIN PITTED

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 7.08$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : alphaHEXYLCINNAMIC ALDEHYDE [1] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 101-86-0
Purity 91.9%
Spec. No. 1320001

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1	
OEDEMA		2	2	2	2	1	

ANIMAL No.	2						
ERYTHEMA		2	2	2	2	2	
OEDEMA		2	3	3	2	2	
OBSERVATIONS						De*	

ANIMAL No.	3						
ERYTHEMA		1	2	2	2	2	
OEDEMA		1	2	1	1	1	
OBSERVATIONS						De	

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED)

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 4.0$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : alphaHEXYLCINNAMIC ALDEHYDE [2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml
No. OF RABBITS : FOUR

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 101-86-0
Purity 91.9%
Spec. No. 1320001

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1		
OEDEMA		2	2	2	1	0		
OBSERVATIONS		De						

ANIMAL No.	2							
ERYTHEMA		2	2	2	2	2		
OEDEMA		2	2	2	2	1		

ANIMAL No.	3							
ERYTHEMA		2	2	2	2	2		
OEDEMA		2	3	2	2	2		

ANIMAL No.	4							
ERYTHEMA		2	2	2	2	2		
OEDEMA		2	2	2	2	2		
OBSERVATIONS		De*						

De = DESQUAMATION FROM SKIN SURFACE (* = MARKED)

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.0$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : alphaHEXYLCINNAMIC ALDEHYDE [3] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml
No. OF RABBITS : FOUR

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 101-86-0
Purity 91.9%
Spec. No. 1320001

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	1	2	1	0		
OEDEMA		0	0	0	0	0		
OBSERVATIONS				Des	Des	Des		

ANIMAL No.	2							
ERYTHEMA		1	2	2	2	1		
OEDEMA		1	1	1	1	1		
OBSERVATIONS						De*		

ANIMAL No.	3							
ERYTHEMA		1	2	2	2	0		
OEDEMA		0	1	1	1	0		
OBSERVATIONS						De*		

ANIMAL No.	4							
ERYTHEMA		1	2	2	2	0		
OEDEMA		0	1	1	1	0		
OBSERVATIONS						Des		

De* = MARKED DESQUAMATION FROM SKIN SURFACE (Des = MARKED)

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.58$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : HYDROXYCITRONELLAL [1] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 107-75-5 EXPOSURE TIME : 4 hours

Purity 98.7%

Spec. No. 5920003

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	2	1	1	1	0		
	OEDEMA	1	1	0	0	0		

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
2								
	ERYTHEMA	1	1	1	1	1		
	OEDEMA	0	1	0	0	0		
	OBSERVATIONS	Des						

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
3								
	ERYTHEMA	1	1	1	0	0		
	OEDEMA	1	0	0	0	0		

Des = SLIGHT DESQUAMATION FROM SKIN SURFACE

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.11$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : HYDROXYCITRONELLAL [2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 107-75-5 EXPOSURE TIME : 4 hours

Purity 98.7%

Spec. No. 5920003

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	1	0	
OEDEMA		0	1	0	0	0	

ANIMAL No.	2						
ERYTHEMA		0	0	0	0	0	
OEDEMA		0	0	0	0	0	

ANIMAL No.	3						
ERYTHEMA		0	1	1	0	0	
OEDEMA		0	0	0	0	0	
OBSERVATIONS		Dvs					

ANIMAL No.	4						
ERYTHEMA		1	1	1	1	0	
OEDEMA		0	0	0	0	0	

Dvs = VERY SLIGHT DESQUAMATION FROM SKIN SURFACE

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.92$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : LILESTRALIS/LILIAL #[1] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 80-54-6 EXPOSURE TIME : 4 hours

Purity 97.8%

Spec. No. 6580003

: tradenames for p-t-butyl-alpha-methylhydrocinnamic aldehyde

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		0	1	2	2	1	
OEDEMA		1	2	2	2	0	
OBSERVATIONS		De*					

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	2	
OEDEMA		2	2	3	3	2	
OBSERVATIONS		De*					

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	3	2	
OEDEMA		2	3	3	3	2	
OBSERVATIONS		De*					

De* = MARKED DESQUAMATION FROM SKIN SURFACE

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 4.56$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : LILESTRALIS/LILIAL #[2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 80-54-6 EXPOSURE TIME : 4 hours

Purity 97.8%

Spec. No. 6580003

: tradenames for p-t-butyl-alpha-methylhydrocinnamic aldehyde

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	2		
OEDEMA		1	2	2	1	1		
OBSERVATIONS		De						

ANIMAL No.	2							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1	2	2	2		
OEDEMA		2	1	2	2	1		
OBSERVATIONS		De						

ANIMAL No.	3							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1		
OEDEMA		1	3	2	2	0		
OBSERVATIONS		De						

ANIMAL No.	4							
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		1	1	1	1	1		
OBSERVATIONS		Des						

De = DESQUAMATION FROM SKIN SURFACE (Des = SLIGHT)

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.58$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 3-METHYLBUTYRALDEHYDE CONCENTRATION TESTED : 100%

SOURCE : BEDOUKIAN VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 590-86-3 EXPOSURE TIME : 4 hours

Purity >98.5%

Spec. No. 290

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1		
OEDEMA		2	2.5	2	1.5	0.5		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	1.5	0.5		
OEDEMA		2	1.5	1.5	1	0		

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	1	0.5	1		
OEDEMA		1	1	0	0	1		
OBSERVATIONS		De*						

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1	1	2	0.5		
OEDEMA		1	1	1.5	1.5	0		
OBSERVATIONS		De*						

De* = MARKED DESQUAMATION FROM THE SKIN

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.83$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2,5-METHYLENE-6-PROPYL CONCENTRATION TESTED : 100%
 -3-CYCLOHEXENCARBALDEHYDE #

SOURCE : QUEST VOLUME TESTED : 0.5ml
 No. OF RABBITS : FOUR

SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 39067-39-5
 Purity >92.0%
 Spec. No. 04471

synonym for 3-propylbicyclo[2.2.1]hept-5-ene-2-carboxaldehyde

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	1	1.5	1.5	0.5	
OEDEMA		1	0.5	0	0	0	
OBSERVATIONS		De*					

ANIMAL No.	2						
ERYTHEMA		1.5	2	2	2	0.5	
OEDEMA		2.5	1.5	0.5	0.5	0	
OBSERVATIONS		De					

ANIMAL No.	3						
ERYTHEMA		1.5	2	2	2	1	
OEDEMA		0.5	1.5	0.5	0.5	0	
OBSERVATIONS		T					

ANIMAL No.	4						
ERYTHEMA		0.5	2	2	1.5	0.5	
OEDEMA		1.5	1.5	0.5	0	0	
OBSERVATIONS		De					

De = DESQUAMATION FROM TREATED SKIN (De* = M,ARKED)

T = SKIN THICKENING

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.42$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : NONANAL CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 124-19-6 EXPOSURE TIME : 4 hours

Purity 98.9%

Spec. No. 1358583

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		0.5	2	2	2	2	
OEDEMA		0.5	1	1	1.5	1.5	
OBSERVATIONS		De*					

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1.5	2	2	2	2	
OEDEMA		1	1	1.5	1.5	1.5	
OBSERVATIONS		De*					

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	2	
OEDEMA		1.5	0.5	1	1.5	1	
OBSERVATIONS		De*					

ANIMAL No.	4	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		0.5	2	2	2.5	3.5	
OEDEMA		2.5	2.5	2	2	2	
OBSERVATIONS		De*					

De* = MARKED DESQUAMATION FROM THE SKIN

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.46$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2-PHENYLPROPION-ALDEHYDE CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml
No. OF RABBITS : FOUR

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 93-53-8
Purity 98.4%
Spec. No. 1557001

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	2	2	2	0.5		
OEDEMA		0	1	0.5	0	0		
OBSERVATIONS		Des						

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	0.5		
OEDEMA		0.5	1	1	0.5	0.5		
OBSERVATIONS		De						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	0.5		
OEDEMA		0 0	0.5	0.5	0.5	0		

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	2		
OEDEMA		2	2	2	1.5	1.5		
OBSERVATIONS		De*						

De = DESQUAMATION FROM THE SKIN (De* = MARKED
Des = SLIGHT)

PRIMARY
IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 2.92$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : p-isoPROPYLPHENYL-ACETALDEHYDE CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 4395-92-0 EXPOSURE TIME : 4 hours

Purity >97%

Spec. No. 13042

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		1	1.5	1.5	1.5	1.5		
OBSERVATIONS		De						

ANIMAL No.	2							
ERYTHEMA		1	1	0.5	0.5	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	3							
ERYTHEMA		1	1.5	0.5	0.5	0		
OEDEMA		0	1	0	0	0		

ANIMAL No.	4							
ERYTHEMA		1.5	2	2	1.5	1.5		
OEDEMA		1.5	2.5	2	1.5	0.5		

De = DESQUAMATION FROM THE SKIN

YELLOW STAINING WAS OBSERVED IN ALL ANIMALS

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.29$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : SALICYLALDEHYDE CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 90-02-8 EXPOSURE TIME : 4 hours

Purity >98%

Spec. No. 08132

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	2.5	
OEDEMA		4	2.5	1	1	1.5	

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	1.5	1.5	2	
OEDEMA		3	1.5	1	1	0.5	
OBSERVATIONS		De					

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	1	1	0.5	0	
OEDEMA		0.5	0.5	0	0	0	

ANIMAL No.	4	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	1.5	1.5	1.5	
OEDEMA		2	1.5	1	1	0.5	
OBSERVATIONS		De					

De = DESQUAMATION FROM THE SKIN

YELLOW STAINING WAS OBSERVED IN ALL ANIMALS

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.54$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : TETRAHYDRO GERANIAL # CONCENTRATION TESTED : 100%

SOURCE : QUEST VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 5988-91-0 EXPOSURE TIME : 4 hours

Purity -

Spec. No. 09419

: synonym for 3,7-dimethyl octanal

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
ERYTHEMA		0.5	2	2	2	2		
OEDEMA		1	1	0.5	0.5	0.5		

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
2								
ERYTHEMA		0.5	1.5	1.5	1.5	1		
OEDEMA		0	0	0.5	0.5	0.5		
OBSERVATIONS		De						

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
3								
ERYTHEMA		1.5	2	2	2	1.5		
OEDEMA		0	1.5	1	0.5	0		

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
4								
ERYTHEMA		0.5	2	2	2	2		
OEDEMA		0.5	0.5	1	1	1		

De = DESQUAMATION FROM THE SKIN

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.58$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 4-TRICYCLO-DECYLINDENE CONCENTRATION TESTED : 100%
 -8-BUTANAL

SOURCE : QUEST VOLUME TESTED : 0.5ml
 No. OF RABBITS : FOUR

SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 30168-23-1
 Purity >90.0%
 Spec. No. 05481

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1		
OEDEMA		1	1.5	0.5	0	0		
OBSERVATIONS		DeT						

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	3	2.5	2	2		
OEDEMA		1	3	0.5	0	0		
OBSERVATIONS		T						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	1.5	2	2	1.5		
OEDEMA		1	3	0.5	0.5	0		
OBSERVATIONS		De						

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	2.5	2	2	2		
OEDEMA		2	2	1.5	1	1		
OBSERVATIONS		T						

De = DESQUAMATION FROM TREATED SKIN

T = SKIN THICKENING

THE TREATED SKIN WAS STAINED YELLOW IN ANIMALS 1, 2, & 4 FROM 24 hr ON

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.29$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : METHACROLEIN CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 78-85-3 EXPOSURE TIME : 4 hours

Purity 97%

Product No. 13,303-5

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		30mn	1d	2d	3d	6d	9d	13d
1								
	ERYTHEMA	2	2	2	2	2	4	4
	OEDEMA	2	2	2	2	2	2	2
	OBSERVATIONS			B1	B1	B1	Ne	Ne
2								
	ERYTHEMA	2	2	2	2	2	4	4
	OEDEMA	2	3	3	1	1	1Ne	1Ne
	OBSERVATIONS				B1	B1	B1 Ne	B1 Ne
3								
	ERYTHEMA	2	2	2	2	2	4	4
	OEDEMA	2	2	2	2	1	2Ne	2Ne
	OBSERVATIONS				B1	B1	B1 Ne	B1 Ne

B1 = BLANCHING

Ne = NECROSIS

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.11$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : POTASSIUM HYDROXIDE CONCENTRATION TESTED : 5%aq
 SOURCE : MALLINDKRODT VOLUME TESTED : 0.5ml
 No. OF RABBITS : THREE
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 1310-58-3
 Purity REAGENT GRADE
 Product No. Lot 6984

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		4½h	1d	2d	3d			
ERYTHEMA		2	3	3	3			
OEDEMA		1	2	2	2			

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		4½h	1d	2d	3d			
ERYTHEMA		2	3	3	3			
OEDEMA		1	2	2	2			
OBSERVATIONS		Ex	Ex	Ex	Ex			

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		4½h	1d	2d	3d			
ERYTHEMA		3	3	4	4			
OEDEMA		2	2	2	2			
OBSERVATIONS		Ex	Ex	Ex	Ex			

Ex = REACTION EXTENDED OUTSIDE APPLICATION SITE

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 5.22$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : POTASSIUM HYDROXIDE CONCENTRATION TESTED : 10%aq
SOURCE : MALLINDKRODT VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE
SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 1310-58-3
Purity REAGENT GRADE
Product No. Lot 6984

ANIMAL No.		OBSERVATION	INTERVAL (days)				
			4½h				
1							
ERYTHEMA	NeEx						
OEDEMA	Sev						
2							
ERYTHEMA	NeEx						
OEDEMA	Sev						
3							
ERYTHEMA	NeEx						
OEDEMA	Sev						

Ne = NECROSIS

Ex = REACTION EXTENDED OUTSIDE APPLICATION SITE

Sev = NOT EVALUATED DUE TO SEVERITY OF EFFECTS

PRIMARY

IRRITATION = NOT POSSIBLE TO CALCULATE INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : SODIUM BICARBONATE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH WEIGHT TESTED : 0.3g

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 144-55-8 EXPOSURE TIME : 4 hours

Purity 99.7%

Product No. 23652-7

ANIMAL No.		OBSERVATION				INTERVAL (days)	
		1d	2d	3d	7d	14d	
1							
	ERYTHEMA	1	0	0			
	OEDEMA	0	0	0			
2							
	ERYTHEMA	0	0	0			
	OEDEMA	0	0	0			
3							
	ERYTHEMA	0	0	0			
	OEDEMA	0	0	0			

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.11$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : SODIUM CARBONATE CONCENTRATION TESTED : 50%aq
 SOURCE : VOLUME TESTED : 0.5ml
 No. OF RABBITS : THREE
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 497-19-8
 Purity 100%

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		4½h	1d	2d	3d			
1								
	ERYTHEMA	0	2	2	2			
	OEDEMA	0	1	1	1			
	OBSERVATIONS		Ex	Ex	Ex			
2								
	ERYTHEMA	1	1	1	1			
	OEDEMA	0	0	0	0			
3								
	ERYTHEMA	2	2	2	2			
	OEDEMA	1	1	1	1			

Ex = REACTION EXTENDED OUTSIDE APPLICATION SITE

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 2.33$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : SODIUM METASILICATE CONCENTRATION TESTED : 10%aq
 SOURCE : FISHER SCIENTIFIC VOLUME TESTED : 0.5ml
 No. OF RABBITS : THREE
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 6834-92-0
 Purity REAGENT GRADE
 Product No. Lot 704631

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		4½h	1d	2d	3d			
1								
	ERYTHEMA	2	1	1	1			
	OEDEMA	0	0	0	0			
2								
	ERYTHEMA	2	1	1	1			
	OEDEMA	0	0	0	0			
3								
	ERYTHEMA	2	2	1	1			
	OEDEMA	1	1	0	0			

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 1.22$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : SODIUM METASILICATE CONCENTRATION TESTED : 50%aq
 SOURCE : FISHER SCIENTIFIC VOLUME TESTED : 0.5ml
 No. OF RABBITS : THREE
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 6834-92-0
 Purity REAGENT GRADE
 Product No. Lot 704631

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		4½h	1d	2d	3d			
ERYTHEMA		3	4	4	4			
OEDEMA		2	3	3	3			
OBSERVATIONS		Ex	Ex	Ex	Ex			

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		4½h	1d	2d	3d			
ERYTHEMA		2	2	2	2			
OEDEMA		1	1	1	1			
OBSERVATIONS		Ex	Ex	Ex	Ex			

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		4½h	1d	2d	3d			
ERYTHEMA		1	1	1	1			
OEDEMA		0	0	0	0			

Ex = REACTION EXTENDED OUTSIDE APPLICATION SITE

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 3.67$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : ERUCAMIDE CONCENTRATION TESTED : 100%

SOURCE : WEIGHT TESTED : 0.5g

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 112-84-5 EXPOSURE TIME : 4 hours

Purity -

Trade name UNISLIP 1753

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
1	ERYTHEMA	1	0	0	0			
	OEDEMA	0	0	0	0			
2	ERYTHEMA	1	0	0	0			
	OEDEMA	0	0	0	0			
3	ERYTHEMA	1	0	0	0			
	OEDEMA	0	0	0	0			

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$

INDEX

CHEMICAL	: DIETHYLAMINO- PROPYLAMINE	CONCENTRATION TESTED	: 100%
SOURCE	: ALDRICH	VOLUME TESTED	: 0.5ml
SPECIFICATION	:	No. OF RABBITS	: ONE
		EXPOSURE TIME	: 4 hours
	CAS No.	104-78-9	
	Purity	99.8%	
	Product No.	D8,920-4	

ANIMAL No.	OBSERVATION				INTERVAL (days)		
	1h	1d	2d	3d	4d		
1							
<u>ERYTHEMA</u>	Ne	Ne	Ne	Ne	SACRIFICED		
<u>OEDEMA</u>	0	0	0	0			

Ne = NECROSIS

COMMENTS :

TISSUE NECROSIS WAS OBSERVED AT THE PATCH SITE

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : N,N-DIMETHYL-BENZYLAMINE CONCENTRATION TESTED : 100%

SOURCE : BAYER AG VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 103-83-3
Purity 99.34%
Batch No. 419311

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
1	ERYTHEMA	4	4	SACRIFICED				
	OEDEMA	2	1					
2	ERYTHEMA	4	4	SACRIFICED				
	OEDEMA	1	1					
3	ERYTHEMA	4	4	SACRIFICED				
	OEDEMA	1	1					

THE SEVERE SKIN REATIONS WERE "DEEP RED TO BLACK INJURIES"

PRIMARY
IRRITATION = NOT POSSIBLE TO CALCULATE INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DIMETHYL-n-BUTYLAMINE CONCENTRATION TESTED : 100%
 SOURCE : ALDRICH VOLUME TESTED : 0.5ml
 No. OF RABBITS : SIX
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 927-62-8
 Purity 99.5%
 Product No. 36,952-7

ANIMAL No.		OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d	14d	15d
1	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	1	1	1	1	1	0	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
2	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	1	1	1	1	1	0	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
3	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	1	1	1	1	1	0	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
4	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	2	2	1	1	1	0	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
5	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	3	2	1	1	2	0	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
6	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	2	1	1	1	1	1	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	

Bu = BURNS;

Sc = SCABS;

SACD = SACRIFICED

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 5.11$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DIMETHYLisoPROPYLAMINE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : SIX

CAS No. 996-35-0 EXPOSURE TIME : 4 hours

Purity 99.6%

Product No. 34,398-6

ANIMAL No.		OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d	14d	15d
1	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	1	2	1	1	1	1	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
2	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	1	2	2	2	1	1	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
3	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	1	2	1	1	1	1	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
4	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	2	2	1	1	1	1	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
5	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	3	3	2	2	2	2	
	OBSERVATIONS	Bu	Bu	Bu	Bu	Sc	Sc	
6	ERYTHEMA	4	4	4	4	DEAD		
	OEDEMA	2	2	1	1			
	OBSERVATIONS	Bu	Bu	Bu	Bu			

Bu = BURNS;

Sc = SCABS;

SACD = SACRIFICED

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 5.61$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DIMETHYLDIPROPYLENE- TRIAMINE CONCENTRATION TESTED : 100%

SOURCE : ELF ATOCHEM VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 10563-29-8 EXPOSURE TIME : 4 hours

Purity 99.5%

FOUR HOUR EXPOSURE

ANIMAL No.		OBSERVATION			INTERVAL (days)			
		1h	1d	2d				
1	ERYTHEMA	Ne	Ne	SACRIFICED				
	OEDEMA	2	2					
2	ERYTHEMA	Ne	Ne	SACRIFICED				
	OEDEMA	4	4					
3	ERYTHEMA	Ne	Ne	SACRIFICED				
	OEDEMA	4	4					

Ne = NECROSIS

COMMENTS:

APPLICATION FOR 4 HOURS RESULTED IN TISSUE DESTRUCTION OF THE WHOLE DEPTH OF THE SKIN AND THE ANIMALS WERE SACRIFICED FOR HUMANITARIAN REASONS.

THREE MINUTES EXPOSURE

ANIMAL No.		1hr	1d	2d	3d	7d	10d	14d
4	ERYTHEMA	Ne	Ne	Ne	Ne	Ne	Ne	Ne
	OEDEMA	2	2	0	0	0	0	0

Ne = NECROSIS

COMMENTS :

FOLLOWING APPLICATION FOR 3 MINUTES, SEVERE ERYTHEMA TO SLIGHT ESCHAR FORMATION WAS OBSERVED AFTER 1 HOUR AND THEN WAS IRREVERSIBLE OVER 14 DAYS. SLIGHT OEDEMA (GRADE 2) WAS OBSERVED AFTER 1 DAY.

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2,4-DINITRO-N-METHYL- ANILINE CONCENTRATION TESTED : 100%

SOURCE : HOECHST AG WEIGHT TESTED : 0.5g

SPECIFICATION : CAS No. 2044-88-4 No. OF RABBITS : THREE

Purity 99.0% EXPOSURE TIME : 4 hours

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
ANIMAL No. 1								
	ERYTHEMA	1	0	0	0			
	OEDEMA	0	0	0	0			
ANIMAL No. 2								
	ERYTHEMA	1	0	0	0			
	OEDEMA	0	0	0	0			
ANIMAL No. 3								
	ERYTHEMA	1	0	0	0			
	OEDEMA	0	0	0	0			

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 0$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : n-HEPTYLAMINE CONCENTRATION TESTED : 100%

SOURCE : SIGMA VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : SIX

CAS No. 111-68-2 EXPOSURE TIME : 4 hours

Purity 99.5%

Product No. H 3750

ANIMAL No.		OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d	14d	15d
1	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	4	3	3	1	2	2	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
2	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	4	4	2	1	1	1	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
3	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	4	4	2	1	1	1	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
4	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	4	4	3	1	2	1	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
5	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	4	4	4	1	2	2	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
6	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	4	4	4	2	2	1	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	

Bu = BURNS;

Sc = SCABS;

SACD = SACRIFICED

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 6.67$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : METHOXY-3-PROPYLAMINE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : SIX

CAS No. 5332-73-0 EXPOSURE TIME : 4 hours

Purity >99%

Product No. M2,500-7

ANIMAL No.		OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d	14d	15d
1	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	3	3	3	1	2	1	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
2	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	3	4	4	2	2	2	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
3	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	3	3	3	1	2	2	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
4	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	3	4	4	1	2	2	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
5	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	3	4	3	1	2	2	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	
6	ERYTHEMA	4	4	4	4	4	4	SACD
	OEDEMA	3	3	3	1	2	2	
	OBSERVATIONS	Bu	Sc	Sc	Sc	Sc	Sc	

Bu = BURNS;

Sc = SCABS;

SACD = SACRIFICED

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 6.67$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : OLEYL PROPYLENE DIAMINE DIOLEATE CONCENTRATION TESTED : 100%

SOURCE : ELF ATOCHEM VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 40027-38-1
Purity unknown
Trade Name INILOP 002

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	10d	12d
ERYTHEMA		2	2	3	4	2	0	0
OEDEMA		2	3	3	4	2	0	0
OBSERVATIONS						Dr	Dr	

ANIMAL No.	2							
ERYTHEMA		1	2	2	1	0		
OEDEMA		1	1	1	0	0		
OBSERVATIONS						Dr		

ANIMAL No.	3							
ERYTHEMA		2	2	2	1	0	0	0
OEDEMA		0	1	1	0	0	0	0
OBSERVATIONS						Dr	Dr	

Dr = DRYNESS OF THE SKIN

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 3.67$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : HYDROGENATED TALLOW AMINE CONCENTRATION TESTED : 100%

SOURCE : ELF ATOCHEM WEIGHT TESTED : 0.5g
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 61788-45-2
Purity >95%
Trade Name NORAM SH

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	6d	9d	
ERYTHEMA		2	3	2	2	1		
OEDEMA		4	4	2	2	1		
OBSERVATIONS		Dr						

ANIMAL No.	2							
ERYTHEMA		0	0	0	0			
OEDEMA		0	0	0	0			

ANIMAL No.	3							
ERYTHEMA		2	3	3	3	2	0	
OEDEMA		2	3	3	2	0	0	
OBSERVATIONS		Dr						

Dr = DRYNESS OF THE SKIN

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 3.56$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : HYDROGENATED TALLOW CONCENTRATION TESTED : 100%
 PROPYLENE DIAMINE

SOURCE : ELF ATOCHEM WEIGHT TESTED : 0.5g
 No. OF RABBITS : SIX

SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 68603-64-5
 Purity >85%
 Trade Name DINORAM SH

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
ERYTHEMA		0	0	0	0			
OEDEMA		0	0	0	0			

ANIMAL No.	2							
ERYTHEMA		0	0	0	0			
OEDEMA		0	0	0	0			

ANIMAL No.	3							
ERYTHEMA		0	0	0	0			
OEDEMA		0	0	0	0			

ANIMAL No.	4							
ERYTHEMA		0	0	0	0			
OEDEMA		0	0	0	0			

ANIMAL No.	5							
ERYTHEMA		0	0	0	0			
OEDEMA		0	0	0	0			

ANIMAL No.	6							
ERYTHEMA		0	0	0	0			
OEDEMA		0	0	0	0			

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : TALLOW POLYPROPYLENE CONCENTRATION TESTED : 100%
 POLYAMINE

SOURCE : ELF ATOCHEM WEIGHT TESTED : 0.5g
 No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 3 mins
 CAS No. 68911-79-5
 Purity >95%
 Trade name POLYRAM S

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	10d	
1	ERYTHEMA	1	2	2	2	Dr	0	
	OEDEMA	0	2	1	1	0	0	
2	ERYTHEMA	0	1	1	0			
	OEDEMA	0	0	0	0			
3	ERYTHEMA	1	2	2	2	1	0	
	OEDEMA	0	2	2	2	0	0	

Dr = DRYNESS OF THE SKIN

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.67$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : TALLOW POLYPROPYLENE CONCENTRATION TESTED : 100%
 POLYAMINE

SOURCE : ELF ATOCHEM WEIGHT TESTED : 0.5g
 No. OF RABBITS : THREE

SPECIFICATION : CAS No. 68911-79-5 EXPOSURE TIME : 1 hour
 Purity >95%
 Trade name POLYRAM S

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	8d	10d
ERYTHEMA		1	2	2	0	0	0	0
OEDEMA		2	4	4	3	2	1	0
OBSERVATIONS					Dr	Dr	Dr	

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	8d	10d
ERYTHEMA		3	4	4	3	CrDr	0	
OEDEMA		1	4	4	3	2	0	
OBSERVATIONS			Dr	Dr	Dr			

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	8d	10d
ERYTHEMA		0	0	0	0			
OEDEMA		0	0	0	0			

Dr = DRYNESS OF THE SKIN

Cr = CRUST

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.11$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : TALLOW AMINE CONCENTRATION TESTED : 100%

SOURCE : ELF ATOCHEM WEIGHT TESTED : 0.5g

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 61790-33-8 EXPOSURE TIME : 3 MINS

Purity Technical grade, >95%

Trade name. NORAM S

THREE MINUTES EXPOSURE

ANIMAL No.	OBSERVATION INTERVAL (days)						
	1h	1d	2d	3d	4d	7d	13d
ERYTHEMA	2	3	XE	XE	XE	Ne	Ne
OEDEMA	4	4	4	4	4	4	XO
OBSERVATIONS		wd			Dr	rc	rc
						Dr	Dr

ANIMAL No.	2						
ERYTHEMA	1	3	XE	XE	XE	Ne	Ne
OEDEMA	4	4	4	4	4	4	XO
OBSERVATIONS		wd	Dr	Dr	Dr	rc	rc
						Dr	Dr

ANIMAL No.	3						
ERYTHEMA	2	3	XE	XE	XE	rc	rc
OEDEMA	4	4	4	4	4	4	XO
OBSERVATIONS		wd				Dr	Dr

wd = WHITE DISCOLORATION

rc = RED COLORATION OF THE SKIN

Dr = DRYNESS OF THE SKIN

XE = ERYTHEMA NOT SCORABLE DUE TO WHITE DISCOLORATION

XO = OEDEMA NOT SCORABLE DUE TO DRYNESS OF SKIN

Ne = NECROSIS

PRIMARY

IRRITATION = NOT POSSIBLE TO CALCULATE INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2,4-XYLIDINE CONCENTRATION TESTED : 100%

SOURCE : BAYER AG VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 95-68-1 EXPOSURE TIME : 4 hours

Purity 98.1%

Batch No. 048824-04

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		30mn	1d	2d	3d	4d	5d	
1								
	ERYTHEMA	2	1	1	1	0	0	
	OEDEMA	2	1	1	0	0	0	
2								
	ERYTHEMA	2	1	1	1	1	0	
	OEDEMA	1	1	1	0	0	0	
3								
	ERYTHEMA	2	1	1	1	0	0	
	OEDEMA	2	0	0	0	0	0	

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.44$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : ALLYL BROMIDE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 106-95-6 EXPOSURE TIME : 3 mins OR 4 hours

Purity 99%

Product No. A2,958-5

3 MINUTE APPLICATION

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	10d	14d
ERYTHEMA		2	2	3	3	3		
OEDEMA		2	0	0	0	0		
OBSERVATIONS					Dr	Dr		

4 HOUR APPLICATION

ANIMAL No.	2							
ERYTHEMA		3	4	4	4	4	Cr	Cr
OEDEMA		2	2	3	3	0	0	0
OBSERVATIONS						Cr		

ANIMAL No.	3							
ERYTHEMA		3	4	4	4	TD obs'd day 5		
OEDEMA		3	3	4	4	SAC day 6		

Dr = DRYNESS OF THE SKIN

Cr = CRUST

TD = TISSUE DESTRUCTION

SAC = SACRIFICE

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 7.17$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2-BROMOBUTANE CONCENTRATION TESTED : 100%
 SOURCE : ALDRICH VOLUME TESTED : 0.5ml
 No. OF RABBITS : THREE
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 78-76-2
 Purity >99.0%
 Product No. B5,950-0

ANIMAL No.	1	OBSERVATION				INTERVAL (DAYS)		
		1h	1d	2d	3d	5d	7d	14d
ERYTHEMA		1	2	2	2	2	0	
OEDEMA		0	0	0	0	0	0	
OBSERVATIONS						Dr	Dr	

ANIMAL No.	2							
		1h	1d	2d	3d	5d	7d	14d
ERYTHEMA		2	2	2	1	1	0	0
OEDEMA		2	2	1	0	0	0	0
OBSERVATIONS						Dr	Dr	Dr

ANIMAL No.	3							
		1h	1d	2d	3d	5d	7d	14d
ERYTHEMA		2	2	2	1	1	0	0
OEDEMA		4	2	1	0	0	0	0
OBSERVATIONS							Dr	Dr

Dr = DRYNESS OF THE SKIN

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.44$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 1-BROMO-4-CHLORO- BUTANE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 6940-78-9 EXPOSURE TIME : 4 hours

Purity 98.0%

Product No. B6,080-0

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
1	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
2	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
3	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 1-BROMO-2-CHLORO-ETHANE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 107-04-0 EXPOSURE TIME : 4 hours

Purity 98%

Product No. 23,275-0

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	6d	10d	14d
ERYTHEMA		2	2	1	1	0	0	0
OEDEMA		0	2	0	0	0	0	0
OBSERVATIONS						Dr	Dr	Dr

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	6d	10d	14d
ERYTHEMA		2	2	2	2	1	0	0
OEDEMA		2	2	0	0	0	0	0
OBSERVATIONS						Dr	Dr	Dr

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	6d	10d	14d
ERYTHEMA		2	2	2	2	0		
OEDEMA		0	1	0	0	0		
OBSERVATIONS						Dr		

Dr = DRYNESS OF THE SKIN

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.33 \text{ INDEX}$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 1-BROMO-4-FLUORO- BENZENE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 460-00-4 EXPOSURE TIME : 4 hours

Purity 99.8%

Product No. B6720-1

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	4d		
1								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	0	1	1	1	0		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.33$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 1-BROMOHEXANE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 111-25-1 EXPOSURE TIME : 4 hours

Purity >98.5%

Product No. B6,824-0

ANIMAL No.	1	OBSERVATION INTERVAL (DAYS)						
		1h	1d	2d	3d	5d	7d	15d
ERYTHEMA		0	2	3	3	2	0	0
OEDEMA		0	0	0	0	0	0	0
OBSERVATIONS						Dr	Dr	Dr

ANIMAL No.	2	OBSERVATION INTERVAL (DAYS)						
		1h	1d	2d	3d	5d	7d	15d
ERYTHEMA		2	2	2	2	2	0	0
OEDEMA		4	4	2	2	0	0	0
OBSERVATIONS						Dr	Dr	Dr

ANIMAL No.	3	OBSERVATION INTERVAL (DAYS)						
		1h	1d	2d	3d	5d	7d	15d
ERYTHEMA		1	2	3	3	2	0	0
OEDEMA		2	2	2	2	0	0	0
OBSERVATIONS						Dr	Dr	Dr

Dr = DRYNESS OF THE SKIN

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.0$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 1-BROMOPENTANE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 110-53-2 EXPOSURE TIME : 4 hours

Purity 99%

Product No. 11,781-1

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	5d	7d	14d
ERYTHEMA		2	3	4	4	2	0	0
OEDEMA		4	4	2	2	0	0	0
OBSERVATIONS					Dr	Dr	Dr	Dr

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	5d	7d	14d
ERYTHEMA		2	2	2	1	0	0	
OEDEMA		2	0	0	0	0	0	
OBSERVATIONS						Dr	Dr	

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	5d	7d	14d
ERYTHEMA		2	2	3	3	2	0	0
OEDEMA		1	0	4	4	0	0	0
OBSERVATIONS						Dr	Dr	Dr

Dr = DRYNESS OF THE SKIN

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.44$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2-BROMOPROPANE CONCENTRATION TESTED : 100%
 SOURCE : ALDRICH VOLUME TESTED : 0.5ml
 No. OF RABBITS : THREE
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 75-26-3
 Purity 99%
 Product No. B7,811-4

		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	4d	7d	10d
ANIMAL No.	1							
ERYTHEMA		2	2	2	1	1	0	0
OEDEMA		0	0	0	0	0	0	0
OBSERVATIONS		Dr						

ANIMAL No.	2							
ERYTHEMA		2	2	1	0			
OEDEMA		0	0	0	0			

ANIMAL No.	3							
ERYTHEMA		2	2	2	1	1	0	
OEDEMA		0	0	0	0	0	0	
OBSERVATIONS		Dr						

Dr = DRYNESS OF THE SKIN

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.44$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 1,6-DIBROMOHEXANE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 629-03-8 EXPOSURE TIME : 4 hours

Purity 98.4%

Product No. D4,100-7

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
ERYTHEMA		0	1	1	0			
OEDEMA		0	0	0	0			

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
ERYTHEMA		1	2	1	0			
OEDEMA		0	0	0	0			

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
ERYTHEMA		2	2	1	0			
OEDEMA		0	0	0	0			

PRIMARY

$$\text{IRRITATION INDEX} = \frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.89$$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 1,3-DIBROMOPROPANE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 109-64-8 EXPOSURE TIME : 4 hours

Purity 98.4%

Product No. 12,590-3

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	5d	6d	7d
ERYTHEMA		1	2	2	2	0	0	0
OEDEMA		0	0	0	0	0	0	0
OBSERVATIONS						Dr	Dr	

ANIMAL No.	2							
		1h	1d	2d	3d	5d	6d	7d
ERYTHEMA		1	2	2	1	0	0	
OEDEMA		0	0	0	0	0	0	
OBSERVATIONS						Dr		

ANIMAL No.	3							
		1h	1d	2d	3d	5d	6d	7d
ERYTHEMA		1	2	2	2	0	0	
OEDEMA		0	0	0	0	0	0	
OBSERVATIONS						Dr		

Dr = DRYNESS OF THE SKIN

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.89$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : PHENETHYL BROMIDE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 103-63-9 EXPOSURE TIME : 4 hours

Purity 99.5%

Product No. B6,578-0

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
ERYTHEMA		0	0	0	0			
OEDEMA		0	0	0	0			

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
ERYTHEMA		0	0	0	0			
OEDEMA		0	0	0	0			

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
ERYTHEMA		0	0	0	0			
OEDEMA		0	0	0	0			

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DICHLOROMETHANE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 75-09-2 EXPOSURE TIME : 4 hours

Purity >99.95%

Product No. D,6510-0

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	9d	16d	
ERYTHEMA		1	4	4	4	4	0	
OEDEMA		2	2	1	1	1	0	

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	9d	16d	
ERYTHEMA		4	4	4	4	1	1	
OEDEMA		1	2	1	2	1	0	

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	9d	16d	
ERYTHEMA		2	4	4	4	4	1	
OEDEMA		2	2	2	2	1	1	

PRIMARY

$$\text{IRRITATION INDEX} = \frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 5.67$$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : TETRACHLOROETHYLENE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 127-18-4 EXPOSURE TIME : 4 hours

Purity >99.95%

Product No. T750-0

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	9d	16d
ERYTHEMA		2	4	4	4	4	1
OEDEMA		1	3	1	2	1	0

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	9d	16d
ERYTHEMA		1	4	4	4	2	1
OEDEMA		2	2	1	2	1	0

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	9d	16d
ERYTHEMA		1	4	4	4	4	2
OEDEMA		2	2	1	1	1	2

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 5.67$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 1,1,1-TRICHLORO-ETHANE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 71-55-6
Purity >99.95%
Product No. 29,899-9

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	9d	16d	
1								
	ERYTHEMA	2	4	4	4	4	0	
	OEDEMA	2	2	2	2	1	0	
2								
	ERYTHEMA	2	4	4	4	0	1	
	OEDEMA	2	2	1	1	1	0	
3								
	ERYTHEMA	1	4	4	1	0	0	
	OEDEMA	2	2	1	1	1	0	

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 5.22$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : TRICHLOROETHYLENE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 79-01-6 EXPOSURE TIME : 4 hours

Purity >99.95%

Product No. 37,214-5

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	9d	16d	
ERYTHEMA		2	4	4	4	4	1	
OEDEMA		2	2	2	1	1	0	

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	9d	16d	
ERYTHEMA		1	4	4	4	4	0	
OEDEMA		1	2	1	1	1	0	

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	9d	16d	
ERYTHEMA		1	4	4	4	4	0	
OEDEMA		2	2	1	1	1	0	

PRIMARY

$$\text{IRRITATION INDEX} = \frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 5.44$$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : ALLYL HEPTANOATE CONCENTRATION TESTED : 100%
 SOURCE : IFF VOLUME TESTED : 0.5ml
 No. OF RABBITS : FOUR
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 142-19-8
 Purity >98%

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	1	1.5	1	1	0.5		
	OEDEMA	0	0.5	0	0	0		
2								
	ERYTHEMA	1.5	2	2	2	0.5		
	OEDEMA	0.5	0.5	0.5	0.5	0		
3								
	ERYTHEMA	1	2	1.5	1.5	0		
	OEDEMA	0.5	0.5	0.5	0.5	0		
4								
	ERYTHEMA	1	2	2	2	1.5		
	OEDEMA	0	0.5	0.5	0.5	0		

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.13$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : ALLYL PHENOXYACETATE CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 7493-74-5 EXPOSURE TIME : 4 hours

Purity 100%

Spec. No. 0435001

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	0	0.5	0	0	0		
	OEDEMA	0	0.5	0	0	0		
2								
	ERYTHEMA	0.5	0.5	0.5	0.5	0		
	OEDEMA	0.5	0	0	0	0		
3								
	ERYTHEMA	0.5	0.5	0	0	0		
	OEDEMA	0	0	0	0	0		
4								
	ERYTHEMA	0	0.5	0.5	0	0		
	OEDEMA	0	0.5	0	0	0		

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.38$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : BENZYL ACETATE [1] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 140-11-4 EXPOSURE TIME : 4 hours

Purity 99.3%

Spec. No. 0178121

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	2	2	2	1	0		
	OEDEMA	1	1	1	1	1		
2								
	ERYTHEMA	1	0	0	0	0		
	OEDEMA	1	0	0	0	0		
3								
	ERYTHEMA	2	2	1	1	1		
	OEDEMA	2	1	1	0	0		
OBSERVATIONS		Des						

Des = SLIGHT DESQUAMATION FROM SKIN SURFACE

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.56$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : BENZYL ACETATE [2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 140-11-4 EXPOSURE TIME : 4 hours

Purity 99.3%

Spec. No. 0178121

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	1	2	2	1	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	0	0	0	0	0Des		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	0	1	1	0	0		
	OEDEMA	0	0	0	0	0		
4								
	ERYTHEMA	1	1	1	1	0		
	OEDEMA	0	0	0	0	0		

Des = SLIGHT DESQUAMATION FROM SKIN SURFACE

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.83$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : BENZYL BENZOATE [1] CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 120-51-4 EXPOSURE TIME : 4 hours

Purity >99%

Spec. No. 15204

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	1	0	0	0	0		
	OEDEMA	0	0	0	0	0		

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
2								
	ERYTHEMA	1	0	0	0	0		
	OEDEMA	0	0	0	0	0		

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
3								
	ERYTHEMA	1	0	0	0	0		
	OEDEMA	0	0	0	0	0		

PRIMARY

$$\text{IRRITATION INDEX} = \frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : BENZYL BENZOATE [2] CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 120-51-4 EXPOSURE TIME : 4 hours

Purity >99%

Spec. No. 15204

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	1	2	2	1	0		
	OEDEMA	1	1	0	0	0		
3								
	ERYTHEMA	1	1	1	1	0		
	OEDEMA	1	1	0	0	0		
4								
	ERYTHEMA	1	2	2	2	1		
	OEDEMA	1	1	1	1	0		

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.58$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : BENZYL SALICYLATE [1] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 118-58-1 EXPOSURE TIME : 4 hours

Purity 100%

Spec. No. 8813001

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	2	1	0	0	0		
	OEDEMA	1	0	0	0	0		

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
2								
	ERYTHEMA	2	1	1	0	0		
	OEDEMA	2	0	0	0	0		

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
3								
	ERYTHEMA	1	0	0	0	0		
	OEDEMA	0	0	0	0	0		

PRIMARY

$$\text{IRRITATION INDEX} = \frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.33$$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : BENZYL SALICYLATE [2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 118-58-1 EXPOSURE TIME : 4 hours

Purity 100%

Spec. No. 8813001

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	1	1	1	1	0		
	OEDEMA	2	1	0	0	0		
2								
	ERYTHEMA	1	1	0	0	0		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	2	1	1	1	0		
	OEDEMA	0	0	0	0	0		
4								
	ERYTHEMA	1	0	0	0	0		
	OEDEMA	1	1	0	0	0		

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.75$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : isoBORNYL ACETATE [1] CONCENTRATION TESTED : 100%
 SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml
 No. OF RABBITS : THREE
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 125-12-2
 Purity 93.5%
 Spec. No. 0190001

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1		
OEDEMA		2	2	2	2	1		

ANIMAL No.	2							
ERYTHEMA		2	2	2	2	1		
OEDEMA		2	2	2	1	1		
OBSERVATIONS						De		

ANIMAL No.	3							
ERYTHEMA		2	2	2	2	2		
OEDEMA		3	2	2	2	1		
OBSERVATIONS						De		

De = DESQUAMATION FROM SKIN SURFACE

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.89$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : isoBORNYL ACETATE [2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 125-12-2 EXPOSURE TIME : 4 hours

Purity 93.5%

Spec. No. 0190001

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		2	2	2	2	1		
OBSERVATIONS		Des						

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		2	2	2	2	1		
OBSERVATIONS		Des						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1		
OEDEMA		1	1	1	1	1		
OBSERVATIONS								

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	1	0		
OEDEMA		1	2	1	1	0		
OBSERVATIONS		De						

De = DESQUAMATION FROM SKIN SURFACE (Des = SLIGHT)

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 3.5$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : n-BUTYL PROPIONATE CONCENTRATION TESTED : 100%
 SOURCE : ALDRICH VOLUME TESTED : 0.5ml
 No. OF RABBITS : FOUR
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 590-01-2
 Purity 99%
 Product No. 30,737-8

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
ERYTHEMA		1	1	2	2	0		
OEDEMA		0	0	0	0	0		
2								
ERYTHEMA		1	1	1	0	0		
OEDEMA		0	0	0	0	0		
3								
ERYTHEMA		0	1	1	1	0		
OEDEMA		0	0	0	0	0		
4								
ERYTHEMA		0	1	1	1	0		
OEDEMA		0	0	0	0	0		

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.08$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DIETHYL PHTHALATE [1] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 84-66-2 EXPOSURE TIME : 4 hours

Purity 99.7%

Spec. No. 8317001

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	0	0	0	0	
OEDEMA		0	0	0	0	0	

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	0	0	0	0	
OEDEMA		0	0	0	0	0	

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		0	0	0	0	0	
OEDEMA		0	0	0	0	0	

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DIETHYL PHTHALATE [2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 84-66-2 EXPOSURE TIME : 4 hours

Purity 99.7%

Spec. No. 8317001

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	1	0	0	0	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	0	1	1	0	0		
	OEDEMA	0	0	0	0	0		
4								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.17$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DIMETHYLBENZYL CARBINYL ACETATE # [1] CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH WEIGHT TESTED : 0.5g
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 151-05-3
Purity >97%
Spec. No. 00684

: synonym for alpha,alpha-dimethylphenethyl acetate

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	1	1	1	1	0		
	OEDEMA	0	1	0	0	0		
2								
	ERYTHEMA	0	1	1	1	0		
	OEDEMA	0	1	0	0	0		
3								
	ERYTHEMA	1	1	1	1	0		
	OEDEMA	0	0	0	0	0		
	OBSERVATIONS						Dvs	

Dvs = VERY SLIGHT DESQUAMATION FROM SKIN SURFACE

PRIMARY
IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.22$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DIMETHYLBENZYL CARBINYL ACETATE # [2] CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH WEIGHT TESTED : 0.5g
No. OF RABBITS : SIX

SPECIFICATION : CAS No. 151-05-3 EXPOSURE TIME : 4 hours
Purity >97%
Spec. No. 00684

: synonym for alpha,alpha-dimethylphenethyl acetate

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	1	1	1	2	0		
	OEDEMA	0	2	1	1	0		
	OBSERVATIONS	Des						
2								
	ERYTHEMA	1	1	1	0	0		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	1	1	1	1	0		
	OEDEMA	1	1	1	0	0		
4								
	ERYTHEMA	2	2	2	2	1		
	OEDEMA	1	2	1	0	0		
	OBSERVATIONS	De						
5								
	ERYTHEMA	1	0	0	0	0		
	OEDEMA	0	0	0	0	0		
6								
	ERYTHEMA	1	1	0	0	0		
	OEDEMA	1	0	0	0	0		

De = DESQUAMATION FROM SKIN SURFACE (Des = SLIGHT

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.39$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2-ETHYLHEXYL COCOATE CONCENTRATION TESTED : 100%

SOURCE : UNICHEMA INTERNATIONAL VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 92044-87-6 EXPOSURE TIME : 4 hours

Purity

Trade name ESTOL 1540/1972

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1	1	1	0		
OEDEMA		1	1	1	1	0		

ANIMAL No.	2							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1	1	1	0		
OEDEMA		1	1	1	0	0		

ANIMAL No.	3							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1	1	0	0		
OEDEMA		1	1	1	0	0		

PRIMARY

$$\text{IRRITATION INDEX} = \frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.67$$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2-ETHYLHEXYL PALMITATE CONCENTRATION TESTED : 100%

SOURCE : DS INDUSTRIES VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 29806-73-3
Purity -
Trade name ESTAMOL EH 16

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
1								
	ERYTHEMA	0	1	1	0			
	OEDEMA	0	0	0	0			
2								
	ERYTHEMA	0	1	0	0			
	OEDEMA	0	0	0	0			
3								
	ERYTHEMA	0	1	1	0			
	OEDEMA	0	0	0	0			

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.56$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : ETHYL TIGLATE CONCENTRATION TESTED : 100%

SOURCE : IFF VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 5837-78-5 EXPOSURE TIME : 4 hours

Purity 98.8%

Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	1.5	1	1	0.5		
OEDEMA		0.5	0.5	0	0	0		
OBSERVATIONS		De						

ANIMAL No.	2							
ERYTHEMA		1	1	0.5	0.5	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	3							
ERYTHEMA		1.5	1.5	1.5	0.5	0		
OEDEMA		0	0.5	0	0	0		

ANIMAL No.	4							
ERYTHEMA		1.5	2	1	0.5	0		
OEDEMA		0	0.5	0	0	0		
OBSERVATIONS		Des						

De = DESQUAMATION FROM THE SKIN (Des = SLIGHT)

PRIMARY
IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.17$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : ETHYL TRIMETHYL ACETATE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml
No. OF RABBITS : SIX

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 3938-49-2
Purity 99%
Product No. 23,455-9

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1	1	0	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	1	1	0	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1	0	0	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	1	1	0	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	5	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	1	0	0	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	6	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	1	0	0	0		
OEDEMA		0	0	0	0	0		

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.5$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : GLYCOLBROMOACETATE CONCENTRATION TESTED : 85%

SOURCE : SA SOPURA VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : ONE

CAS No. 3785-34-0 EXPOSURE TIME : 4 hours

Purity 85%

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	10d	14d
ERYTHEMA		4Ne	4Ne	4Ne	4Ne	4Cr	4Sc	2St
OEDEMA		4	4	4	3	3	3	3

Ne = VERY SLIGHT TO MODERATE ISCHEMIC NECROSIS

Cr = SLIGHT OR MODERATE INCRUSTATION

Sc = MODERATE SCALINESS AND SLIGHT TO MODERATE INCRUSTATION

St = SCAR TISSUE AND DECREASED HAIR GROWTH

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 7.67$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : HEPTYL BUTYRATE CONCENTRATION TESTED : 100%

SOURCE : BBA VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 5870-93-9 EXPOSURE TIME : 4 hours

Purity >95%

Spec. No. -

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		0.5	1.5	1.5	1.5	0	
OEDEMA		0	0	0	0	0	

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1.5	
OEDEMA		0	0.5	0	0	0	
OBSERVATIONS		Ts					

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		0.5	0.5	1	0.5	0.5	
OEDEMA		0	0	0	0	0	
OBSERVATIONS		Des					

ANIMAL No.	4	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	2	
OEDEMA		0	1	0.5	0.5	0	
OBSERVATIONS		Des					

Des = SLIGHT DESQUAMATION FROM TREATED SKIN

Ts = SLIGHT SKIN THICKENING

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.75$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : HEXYL SALICYLATE [1] CONCENTRATION TESTED : 100%
 SOURCE : FIRMENICH VOLUME TESTED : 0.5ml
 No. OF RABBITS : THREE
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 6259-76-3
 Purity >98%
 Spec. No. 80916

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1		
OEDEMA		1	1	1	1	1		
OBSERVATIONS		De*						

ANIMAL No.	2							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	2		
OEDEMA		1	1	1	2	2		
OBSERVATIONS		De*						

ANIMAL No.	3							
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		1	2	2	2	1		
OBSERVATIONS		De						

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED)

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 3.44$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : HEXYL SALICYLATE [2] CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 6259-76-3 EXPOSURE TIME : 4 hours

Purity >98%

Spec. No. 80916

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1	
OEDEMA		1	1	1	0	0	
OBSERVATIONS		De*					

ANIMAL No.	2						
ERYTHEMA		2	2	2	2	2	
OEDEMA		2	2	2	2	1	

ANIMAL No.	3						
ERYTHEMA		2	2	2	2	2	
OEDEMA		3	2	2	2	1	

ANIMAL No.	4						
ERYTHEMA		2	2	2	2	2	
OEDEMA		2	2	2	2	2	
OBSERVATIONS		De*					

De* = MARKED DESQUAMATION FROM SKIN SURFACE

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.67$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : HEXYL SALICYLATE [3] CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 6259-76-3 EXPOSURE TIME : 4 hours

Purity >98%

Spec. No. 80916

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		2	2	3	3	1		
OBSERVATIONS		Des						

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		1	1	2	1	1		
OBSERVATIONS		De*						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		1	2	2	2	2		
OBSERVATIONS		De*						

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1		
OEDEMA		1	2	3	3	1		

De* = MARKED DESQUAMATION FROM SKIN SURFACE (Des = SLIGHT)

PRIMARY
IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.17$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : HEXYL SALICYLATE [4] CONCENTRATION TESTED : 100%
 SOURCE : FIRMENICH VOLUME TESTED : 0.5ml
 No. OF RABBITS : FOUR
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 6259-76-3
 Purity >98%
 Spec. No. 80916

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1		
OEDEMA		0	1	1	2	1		
OBSERVATIONS		De*						

ANIMAL No.	2							
ERYTHEMA		1	2	2	2	2		
OEDEMA		1	2	2	2	1		
OBSERVATIONS		De						

ANIMAL No.	3							
ERYTHEMA		1	2	2	2	1		
OEDEMA		0	1	1	1	1		
OBSERVATIONS		De*						

ANIMAL No.	4							
ERYTHEMA		1	2	2	2	0		
OEDEMA		0	1	1	1	0		
OBSERVATIONS		De*						

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED)

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.33$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : LINALYL ACETATE [1] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 115-95-7 EXPOSURE TIME : 4 hours

Purity 96.6%

Spec. No. 0373001

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		0	1	2	2	0	
OEDEMA		0	2	1	1	0	
OBSERVATIONS		De*					

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	2	
OEDEMA		2	2	2	2	1	
OBSERVATIONS		De					

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	2	
OEDEMA		3	2	2	2	2	
OBSERVATIONS		De*					

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED)

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.67$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : LINALYL ACETATE [2] CONCENTRATION TESTED : 100%
 SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml
 No. OF RABBITS : FOUR
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 115-95-7
 Purity 96.6%
 Spec. No. 0373001

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		1	1	1	1	1		
OBSERVATIONS		De						

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1		
OEDEMA		2	1	1	2	0		
OBSERVATIONS		De*						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		2	2	1	1	0		

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	1	1		
OEDEMA		2	1	0	0	0		
OBSERVATIONS		Des						

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED
 Des = SLIGHT)

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.92$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : METHYL CAPROATE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 106-70-7 EXPOSURE TIME : 4 hours

Purity 99%

Product No. 25994-2

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1d	2d	3d	7d	14d	21d	
ERYTHEMA		2	2	1				
OEDEMA		1	1	1				

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		1d	2d	3d	7d	14d	21d	
ERYTHEMA		1	2	2				
OEDEMA		1	1	1				

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		1d	2d	3d	7d	14d	21d	
ERYTHEMA		2	2	1				
OEDEMA		2	1	1				

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.78$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : METHYL LAURATE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 111-82-0 EXPOSURE TIME : 4 hours

Purity 99.5%

Product No. 23459-1

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1d	2d	3d	7d	14d		
ERYTHEMA		2	2	2	2	0		
OEDEMA		2	2	2	2	0		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1d	2d	3d	7d	14d		
ERYTHEMA		2	2	2	2	0		
OEDEMA		2	2	2	2	0		

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1d	2d	3d	7d	14d		
ERYTHEMA		2	2	2	2	0		
OEDEMA		2	2	1	2	0		

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 3.89$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : METHYL LINOLEATE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 112-63-0 EXPOSURE TIME : 4 hours

Purity 99%

Product No. 25994-2

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1d	2d	3d	7d	14d	21d	
1								
	ERYTHEMA	1	3	3				
	OEDEMA	0	2	2				
2								
	ERYTHEMA	1	1	1				
	OEDEMA	1	0	0				
3								
	ERYTHEMA	2	3	2				
	OEDEMA	2	2	2				

PRIMARY

$$\text{IRRITATION INDEX} = \frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.11$$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : METHYL 2-METHYL BUTYRATE CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH VOLUME TESTED : 0.5ml
No. OF RABBITS : FOUR

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 868-57-5
Purity >95%
Product No. 65070

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	0.5	0.5	0.5	0	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	1	1	0.5	0.5	0		
	OEDEMA	0.5	0.5	0	0	0		
3								
	ERYTHEMA	1.5	1.5	1	0.5	0.5		
	OEDEMA	0	0	0	0	0		
4								
	ERYTHEMA	0.5	0.5	0.5	0.5	0		
	OEDEMA	0.5	0	0	0	0		

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.67$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : METHYL PALMITATE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 112-39-0 EXPOSURE TIME : 4 hours

Purity 99%

Product No. 26065-7

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	2d	3d	7d	14d	21d	
ERYTHEMA		2	2	1				
OEDEMA		1	1	1				

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		1h	2d	3d	7d	14d	21d	
ERYTHEMA		3	3	3				
OEDEMA		3	3	2				

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		1h	2d	3d	7d	14d	21d	
ERYTHEMA		3	3	3				
OEDEMA		2	2	3				

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.56$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : METHYL STEARATE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 112-61-8 EXPOSURE TIME : 4 hours

Purity 99%

Product No. 33518-5

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1d	2d	3d	7d	14d	21d	
1								
	ERYTHEMA	1	1	1				
	OEDEMA	0	0	0				
2								
	ERYTHEMA	2	2	3				
	OEDEMA	2	2	2				
3								
	ERYTHEMA	1	1	1				
	OEDEMA	0	0	0				

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.11$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : METHYL TRIMETHYL ACETATE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 598-98-1
Purity 99%
Product No. M8,650-2

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : isoPROPYL MYRISTATE CONCENTRATION TESTED : 100%

SOURCE : UNICHEMA INTERNATIONAL VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 110-27-0 EXPOSURE TIME : 4 hours

Purity -

Trade name ESTOL 1512

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	1	1	1	1	0		
	OEDEMA	0	1	1	0	0		
2								
	ERYTHEMA	1	1	1	1	0		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	1	1	1	1	0		
	OEDEMA	0	0	0	0	0		

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.22$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : isoPROPYL PALMITATE CONCENTRATION TESTED : 100%

SOURCE : UNICHEMA INTERNATIONAL VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 142-91-6 EXPOSURE TIME : 4 hours

Purity -

Trade name ESTOL 1517

ANIMAL No.		OBSERVATION						INTERVAL (days)	
		1h	1d	2d	3d	7d	14d		
1									
	ERYTHEMA	0	1	1	1	0	0		
	OEDEMA	0	0	0	0	0	0		
2									
	ERYTHEMA	1	1	2	2	1	0		
	OEDEMA	0	0	1	1	0	0		
3									
	ERYTHEMA	0	1	1	1	0	0		
	OEDEMA	0	0	0	0	0	0		

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.44$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : isoPROPYLisoSTEARATE CONCENTRATION TESTED : 100%

SOURCE : UNICHEMA INTERNATIONAL VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

EXPOSURE TIME : 4 hours

CAS No. 68171-33-5

Purity. -

Trade name PRISORINE 2021 (Tested as Estol 2021)

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
1								
	ERYTHEMA	1	1	0	0			
	OEDEMA	1	0	0	0			
2								
	ERYTHEMA	1	0	0	0			
	OEDEMA	0	0	0	0			
3								
	ERYTHEMA	1	0	0	0			
	OEDEMA	0	0	0	0			

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 0.11$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : alpha-TERPINYL ACETATE # [1] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 80-26-2
Purity 100%
Spec. No. 0495001

: synonym p-menth-1-en-8-ol acetate

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		0	1	2	2	1	
OEDEMA		0	1	1	1	1	
OBSERVATIONS		De*					

ANIMAL No.	2						
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	1	
OEDEMA		1	2	2	2	1	
OBSERVATIONS		De					

ANIMAL No.	3						
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	2	
OEDEMA		2	2	2	2	1	
OBSERVATIONS		De					

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED)

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.56$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : alpha-TERPINYL ACETATE # [2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml
No. OF RABBITS : FOUR

SPECIFICATION : CAS No. 80-26-2 EXPOSURE TIME : 4 hours
Purity 100%
Spec. No. 0495001

: synonym p-menth-1-en-8-ol acetate

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	2	
OEDEMA		3	3	3	3	1	
OBSERVATIONS		Des					

ANIMAL No.	2						
ERYTHEMA		2	2	2	2	1	
OEDEMA		2	2	2	2	1	

ANIMAL No.	3						
ERYTHEMA		2	2	2	2	1	
OEDEMA		2	3	2	2	1	

ANIMAL No.	4						
ERYTHEMA		1	2	2	2	1	
OEDEMA		0	2	2	2	1	
OBSERVATIONS		De					

De = DESQUAMATION FROM SKIN SURFACE (Des = SLIGHT)

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.33$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : alpha-TERPINYL ACETATE # [3] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml
No. OF RABBITS : FOUR

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 80-26-2
Purity 100%
Spec. No. 0495001

: synonym p-menth-1-en-8-ol acetate

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	1	
OEDEMA		1	2	2	2	1	
OBSERVATIONS		Dem					

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	1	1	
OEDEMA		1	2	1	0	0	
OBSERVATIONS		Des					

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1	
OEDEMA		1	1	1	0	0	
OBSERVATIONS		Des					

ANIMAL No.	4	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	1	1	0	
OEDEMA		0	1	0	0	0	
OBSERVATIONS		Des					

Des = SLIGHT DESQUAMATION FROM SKIN SURFACE (Dem = MINIMAL)

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.75$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 1,4-CINEOLE CONCENTRATION TESTED : 100%
 SOURCE : QUEST VOLUME TESTED : 0.5ml
 SPECIFICATION : No. OF RABBITS : FOUR
 CAS No. 470-67-7 EXPOSURE TIME : 4 hours
 Purity -
 Spec. No. 01245

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1.5		
OEDEMA		0.5	0.5	0	0	0		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	1.5	1.5	1.5	1		
OEDEMA		0	0	0.5	0.5	0.5		
OBSERVATIONS De								

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	2	2	2	1.5		
OEDEMA		0	0.5	0.5	0.5	0.5		

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	2	2	2	1.5		
OEDEMA		0.5	0.5	0.5	0.5	0.5		

De = DESQUAMATION FROM THE SKIN

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.25$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : CAPRYLIC ACID CONCENTRATION TESTED : 100%

SOURCE : UNICHEMA INTERNATIONAL VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 124-07-02 EXPOSURE TIME : 4 hours

Purity -

Trade name PRIFRAC 2901/2903

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
ERYTHEMA		1	1	4	4	TERMINATED		
OEDEMA		2	3	2	0			
OBSERVATIONS				Ne	Es			

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
ERYTHEMA		1	1	4	4	TERMINATED		
OEDEMA		1	2	2	0			
OBSERVATIONS				Ne	Es			

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
ERYTHEMA		1	1	4	4	TERMINATED		
OEDEMA		1	2	2	0			
OBSERVATIONS				Ne	Es			

Ne = NECROSIS

Es = ESCHAR

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.44$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 55/45 MIXTURE OF CAPRYLIC/CAPRIC ACIDS CONCENTRATION TESTED : 100%

SOURCE : UNICHEMA INTERNATIONAL VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 68937-75-7
Purity -
Trade name PRIFRAC 2910

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
ERYTHEMA		1	2	4	4	TERMINATED		
OEDEMA		1	2	2	0			
OBSERVATIONS				Ne	Es			

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
ERYTHEMA		1	2	4	4	TERMINATED		
OEDEMA		1	2	2	0			
OBSERVATIONS				Ne	Es			

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
ERYTHEMA		1	2	4	4	TERMINATED		
OEDEMA		1	3	3	3			
OBSERVATIONS				Ne	Es			

Ne = NECROSIS

Es = ESCHAR

PRIMARY
IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 5.11$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 60/40 MIXTURE OF CAPRYLIC/CAPRIC ACIDS CONCENTRATION TESTED : 100%

SOURCE : UNICHEMA INTERNATIONAL VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 68937-75-7
Purity -
Trade name PRIFRAC 2912

		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	14d	21d
ANIMAL No.	1							
ERYTHEMA		2	4	4	4	4	1	1
OEDEMA		1	3	—*	—*	—*	1	0
OBSERVATIONS			Es	Es	Es	Es	NS	NS

ANIMAL No.	2							
ERYTHEMA		1	2	2	2	4	1	1
OEDEMA		2	4	4	4	—*	1	0
OBSERVATIONS						Es	NSc	NS

ANIMAL No.	3							
ERYTHEMA		1	4	4	4	4	0	1
OEDEMA		2	4	—*	—*	—*	1	2
OBSERVATIONS			Es	Es	Es	Es	NS	

Es = ESCHAR

NS = NEW SKIN FORMATION

NSc = NEW SKIN FORMATION WITH SCALINESS

* = NO SCORE POSSIBLE DUE TO ESCHAR FORMATION

PRIMARY

IRRITATION = NOT POSSIBLE TO CALCULATE INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 65/35 MIXTURE OF CAPRYLIC/CAPRIC ACIDS CONCENTRATION TESTED : 100%

SOURCE : UNICHEMA INTERNATIONAL VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 68937-75-7
Purity -
Trade name PRIFRAC 2911

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	14d	21d
ERYTHEMA		2	4	4	4	4	1	0
OEDEMA		2	3	-*	-*	-*	1	0
OBSERVATIONS			Es			Es	NS	NS

ANIMAL No.	2							
		1h	1d	2d	3d	7d	14d	21d
ERYTHEMA		2	4	4	4	4	1	1
OEDEMA		2	-*	-*	-*	-*	1	2
OBSERVATIONS			Es	Es	Es	Es	NS	NS

ANIMAL No.	3							
		1h	1d	2d	3d	7d	14d	21d
ERYTHEMA		2	3	4	4	1	0	0
OEDEMA		2	3	3	3	1	0	0
OBSERVATIONS				Es	Es	NS	Sc	

Es = ESCHAR

NS = NEW SKIN FORMATION

Sc = SCALINESS

* = NO SCORE POSSIBLE DUE TO ESCHAR FORMATION

PRIMARY

IRRITATION = NOT POSSIBLE TO CALCULATE INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 65/35 MIXTURE OF CAPRYLIC/CAPRIC ACIDS CONCENTRATION TESTED : 100%

SOURCE : PROCTER & GAMBLE VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours

CAS No. 67762-36-1
Purity 53.9% C8, 41.2% C10
Brand code 47032

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		4½h	1d	2d	3d			
1								
	ERYTHEMA	2	3	3	3			
	OEDEMA	0	2	2	2			
	OBSERVATIONS	Ex	Ex	Ex	Ex			
2								
	ERYTHEMA	2	3	3	3			
	OEDEMA	2	2	2	3			
	OBSERVATIONS		Ex	Ex	Ex			
3								
	ERYTHEMA	2	3	4	4			
	OEDEMA	0	2	2	2			
	OBSERVATIONS		Ex	Ex	Ex			

Ex = REACTION EXTENDED OUTSIDE APPLICATION SITE

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 5.33$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : LAURIC ACID CONCENTRATION TESTED : 100%

SOURCE : UNICHEMA INTERNATIONAL WEIGHT TESTED : 0.5g
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 143-07-7
Purity >92%
Trade name PRIFRAC 2922

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	1	1	1	1	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	1	0	0	0	0		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	1	1	0	0	0		
	OEDEMA	0	0	0	0	0		

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.44$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 70/30 MIXTURE OF OLEINE & CAPRYLIC ACID CONCENTRATION TESTED : 100%

SOURCE : VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. - EXPOSURE TIME : 4 hours

Purity -

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	14d	
ERYTHEMA		2	2	1	2	1	0	
OEDEMA		3	3	2	2	0	0	
OBSERVATIONS		Sc						

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	14d	
ERYTHEMA		2	2	1	2	1	0	
OEDEMA		2	2	2	2	0	0	
OBSERVATIONS		Sc						Sc

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	14d	
ERYTHEMA		2	2	1	2	1	0	
OEDEMA		3	2	2	2	0	0	
OBSERVATIONS		Sc						Sc

Sc = SCALINESS

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.78$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 80/20 MIXTURE OF OLEINE & CAPRYLIC ACID CONCENTRATION TESTED : 100%

SOURCE : VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. - EXPOSURE TIME : 4 hours

Purity -

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	14d	
ERYTHEMA		2	2	2	4	4	0	
OEDEMA		1	4	4	4	2	0	
OBSERVATIONS						Sc	NS	

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	14d	
ERYTHEMA		2	2	3	4	3	0	
OEDEMA		1	4	4	-*	2	0	
OBSERVATIONS						Sc	NS	

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	14d	
ERYTHEMA		2	2	2	3	4	0	
OEDEMA		2	4	4	4	2	0	
OBSERVATIONS						Sc	NS	

Sc = SCALINESS

* = CRUST FORMATION PREVENTED OEDEMA BEING GRADED (assumed grade 4 for calculation)

NS = NEW SKIN FORMATION

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 6.67$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 90/10 MIXTURE OF OLEINE & CAPRYLIC ACID CONCENTRATION TESTED : 100%

SOURCE : VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. - EXPOSURE TIME : 4 hours

Purity -

ANIMAL No.	1	OBSERVATION						INTERVAL (days)	
		1h	1d	2d	3d	7d	14d		
ERYTHEMA		1	1	1	2	2	0		
OEDEMA		2	2	3	3	2	0		
OBSERVATIONS						Sc	NS		

ANIMAL No.	2								
		1h	1d	2d	3d	7d	14d		
ERYTHEMA		1	1	2	3	3	0		
OEDEMA		3	3	3	4	2	0		
OBSERVATIONS						NS			

ANIMAL No.	3								
		1h	1d	2d	3d	7d	14d		
ERYTHEMA		1	1	2	2	2	0		
OEDEMA		2	2	3	4	2	0		
OBSERVATIONS						Sc			

Sc = SCALINESS

NS = NEW SKIN FORMATION

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.67$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : isoSTEARIC ACID CONCENTRATION TESTED : 100%

SOURCE : UNICHEMA INTERNATIONAL VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 30399-84-9 EXPOSURE TIME : 4 hours

Purity -

Trade name PRISORINE 3501/3502/3505

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	14d
ERYTHEMA		1	1	2	3	1	0
OEDEMA		2	1	2	2	1	0
OBSERVATIONS			Ex	Ex	Ex	Ex	

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	14d
ERYTHEMA		1	1	2	2	2	0
OEDEMA		1	2	3	3	2	0
OBSERVATIONS			Ex	Ex	Ex	Ex	NS

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	14d
ERYTHEMA		1	1	2	3	3	0
OEDEMA		1	2	3	4	3	0
OBSERVATIONS			Ex	Ex	Ex	Ex	

Ex = ERYTHEMA & OEDEMA EXTENDED OUTSIDE APPLICATION SITE

NS = NEW SKIN

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.33$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : CINNAMON LEAF OIL CONCENTRATION TESTED : 100%

SOURCE : PRODAROM VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 8015-91-6 EXPOSURE TIME : 4 hours

Purity -

Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	0.5		
OEDEMA		1	1	1	0.5	0.5		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	1.5	1.5	1.5	0.5		
OEDEMA		1	0.5	0.5	0.5	0.5		
OBSERVATIONS					Dem			

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1.5	1	1	0.5		
OEDEMA		0	0	0	0	0		
OBSERVATIONS						Des		

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1	0.5	0.5	0		
OEDEMA		0	0.5	0	0	0		
OBSERVATIONS					Dem	De		

De = DESQUAMATION FROM THE SKIN (Des = SLIGHT
Dem = MINIMAL)

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.71$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : CLOVE LEAF OIL CONCENTRATION TESTED : 100%

SOURCE : PRODAROM VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 8000-34-8 EXPOSURE TIME : 4 hours

Purity -

Spec. No. -

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2.5	2.5	2	1.5	
OEDEMA		3	2	2	1	0.5	

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2.5	2	2	1	
OEDEMA		3.5	2	1.5	1.5	0.5	
OBSERVATIONS		De					

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2.5	3	4	DEAD	
OEDEMA		3	3	3	2		
OBSERVATIONS		Dr					

ANIMAL No.	4	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	2	
OEDEMA		2.5	2	2	0.5	1	
OBSERVATIONS		De					

De = DESQUAMATION FROM SKIN SURFACE

Dr = SKIN DRY

YELLOW STAINING WAS OBSERVED IN ALL ANIMALS

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.29$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : LITSEA CUBEBA OIL CONCENTRATION TESTED : 100%

SOURCE : FIRMENICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 68855-99-2 EXPOSURE TIME : 4 hours

Purity -

Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	2	2	2	2.5		
OEDEMA		2.5	2.5	2.5	2	2		

ANIMAL No.	2							
ERYTHEMA		2	2	2	2	2		
OEDEMA		3	2.5	2.5	2.5	1		
OBSERVATIONS		De*						

ANIMAL No.	3							
ERYTHEMA		2	2	2	2	1.5		
OEDEMA		3.5	2	1.5	1	0.5		
OBSERVATIONS		De*						

ANIMAL No.	4							
ERYTHEMA		1.5	2	2	2	1.5		
OEDEMA		2.5	2	1	0.5	0		
OBSERVATIONS		De						

De = DESQUAMATION FROM THE SKIN (De* = MARKED)

YELLOW STAINING WAS OBSERVED IN ALL ANIMALS

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.88$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : ORIGANUM OIL CONCENTRATION TESTED : 100%

SOURCE : PRODAROM VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 8007-11-2 EXPOSURE TIME : 4 hours

Purity -

Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	4	4	4	4		
OEDEMA		1	-	-	-	-		
OBSERVATIONS		Br	EH	EH	EH	EH		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	3	3.5	3.5	3.5		
OEDEMA		2.5	2	-	-	-		
OBSERVATIONS			H	H	H			

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	3.5	3.5	3.5		
OEDEMA		1.5	2	1	-	-		
OBSERVATIONS				H	H			

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	3	3.5	4	2		
OEDEMA		2.5	1.5	-	-	2.5		
OBSERVATIONS			H	EH				

Br = BROWN STAINING

E = ESCHAR

H = SKIN HARDENED

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = >4$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : PARSLEY HERB OIL CONCENTRATION TESTED : 100%

SOURCE : PRODAROM VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 8000-68-8 EXPOSURE TIME : 4 hours

Purity -

Spec. No. -

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1	
OEDEMA		2.5	1.5	0.5	0.5	0	
OBSERVATIONS		T					

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1.5	2	2	2	1.5	
OEDEMA		2.5	2	0	0	0	
OBSERVATIONS		T					

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	1.5	2	2	0.5	
OEDEMA		2	1.5	1.5	1	0	
OBSERVATIONS		Des					

ANIMAL No.	4	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		2	2	2	2	2	
OEDEMA		3	2	1	1	0	
OBSERVATIONS		Ts					

Des = SLIGHT DESQUAMATION FROM TREATED SKIN

T = SKIN THICKENING (Ts = SLIGHT)

THE TREATED SKIN WAS STAINED YELLOW INTERMITTENTLY IN ALL ANIMALS THROUGHOUT THE STUDY

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.0$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : PERILLA OIL CONCENTRATION TESTED : 100%
 SOURCE : PRODAROM VOLUME TESTED : 0.5ml
 No. OF RABBITS : FOUR
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 68132-21-8
 Purity -
 Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1.5	2	1	0.5		
OEDEMA		1	0	0	0	0		
OBSERVATIONS		De						

ANIMAL No.	2							
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1.5		
OEDEMA		4	2	1	1	1		
OBSERVATIONS		De						

ANIMAL No.	3							
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	2.5	2	2	1.5		
OEDEMA		0.5	0.5	0.5	0.5	0.5		
OBSERVATIONS		De						

ANIMAL No.	4							
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	2	2	2	0.5		
OEDEMA		0	0.5	0	0	0		
OBSERVATIONS		De*						

De = DESQUAMATION FROM TREATED SKIN (De* = MARKED)

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.42$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : PIMENTA LEAF OIL CONCENTRATION TESTED : 100%

SOURCE : PRODAROM VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 8006-77-7 EXPOSURE TIME : 4 hours

Purity -

Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1.5		
OEDEMA		1	1.5	1.5	1.5	0.5		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1.5		
OEDEMA		1.5	1.5	1	1	0		
OBSERVATIONS		Des						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	1	2	1.5	1		
OEDEMA		0.5	0.5	0.5	0.5	0		

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	1.5	2	1.5	1		
OEDEMA		0.5	1.5	0.5	0.5	0		

Des = SLIGHT DESQUAMATION FROM THE SKIN

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.79$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : TAGETES OIL CONCENTRATION TESTED : 100%
 SOURCE : PRODAROM VOLUME TESTED : 0.5ml
 No. OF RABBITS : FOUR
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 8016-84-0
 Purity -
 Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1.5		
OEDEMA		2	1.5	1	0.5	0		
OBSERVATIONS		De						

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	1.5	2		
OEDEMA		1	1.5	1	0	0.5		
OBSERVATIONS		De*						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2.5	1.5		
OEDEMA		2	2	1.5	1.5	2		
OBSERVATIONS		De						

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	0.5		
OEDEMA		2	1.5	1	0.5	0		
OBSERVATIONS		De						

De = DESQUAMATION FROM THE SKIN (De* = MARKED)

THE TREATED SKIN WAS STAINED YELLOW INTERMITTENTLY IN ALL ANIMALS

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.13$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : TEA TREE OIL CONCENTRATION TESTED : 100%

SOURCE : PRODAROM VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 68647-73-4 EXPOSURE TIME : 4 hours

Purity -

Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		1	2.5	2.5	2	2		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	2	2	2	2		
OEDEMA		1	1.5	1.5	2	0		
OBSERVATIONS		T						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		0.5	1	1	1	0		
OBSERVATIONS		T						

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1.5		
OEDEMA		1.5	1.5	1.5	1.5	0.5		
OBSERVATIONS		De						

De = DESQUAMATION FROM THE SKIN

T = SKIN THICKENING

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.63$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : THYME OIL, RED CONCENTRATION TESTED : 100%
 SOURCE : PRODAROM VOLUME TESTED : 0.5ml
 No. OF RABBITS : FOUR
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 8007-46-3
 Purity -
 Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		3	3	4	4	4		
OEDEMA		3	1	0.5	0.5	-		
OBSERVATIONS					DrH	H		

ANIMAL No.	2							
ERYTHEMA		2	2	3	3	3		
OEDEMA		3	2.5	2	3	-		
OBSERVATIONS					H	H		

ANIMAL No.	3							
ERYTHEMA		2	2.5	3	3	3		
OEDEMA		2	2	0.5	1.5	-		
OBSERVATIONS				H	H	H		

ANIMAL No.	4							
ERYTHEMA		2	3	4	4	4		
OEDEMA		3	3	2	2	-		
OBSERVATIONS			H	H	H	H		

- = NO ASSESSMENT POSSIBLE

Dr = DRYSKIN

H = SKIN HARDENED

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 4.92$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 3-CHLORO-4-FLUORONITROBENZENE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : SIX

CAS No. 350-30-1 EXPOSURE TIME : 4 hours

Purity 98%

Product No. 23,323-4

ANIMAL No.		OBSERVATION						INTERVAL (days)
		1h	1d	2d	3d	7d	14d	
1	ERYTHEMA	0	2	2	1	1	0	
	OEDEMA	0	1	1	0	0	0	
2	ERYTHEMA	0	1	1	1	1	0	
	OEDEMA	0	0	0	0	0	0	
3	ERYTHEMA	0	1	1	1	0	0	
	OEDEMA	0	0	0	0	0	0	
4	ERYTHEMA	0	2	2	1	1	0	
	OEDEMA	0	1	1	0	0	0	
5	ERYTHEMA	0	2	2	1	1	0	
	OEDEMA	0	1	1	0	0	0	
6	ERYTHEMA	0	1	1	1	1	0	
	OEDEMA	0	0	0	0	0	0	

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 1.67$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : m-CHLORONITROBENZENE CONCENTRATION TESTED : 100%
SOURCE : BAYER AG WEIGHT TESTED : 0.5g
SPECIFICATION : No. OF RABBITS : THREE
CAS No. 121-73-3 EXPOSURE TIME : 4 hours
Purity 99.6%
Product No. -

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
1								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
2								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
3								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : FLUOROBENZENE CONCENTRATION TESTED : 100%

SOURCE : REIDEL-de HAËN AG VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 462-06-6 EXPOSURE TIME : 4 hours

Purity 99.7%

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	16d
ERYTHEMA		0	0	0	0	0	0
OEDEMA		0	0	0	0	0	0

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	16d
ERYTHEMA		0	0	0	0	0	0
OEDEMA		0	0	0	0	0	0

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	16d
ERYTHEMA		0	0	0	1	1	0
OEDEMA		0	0	0	0	0	0

PRIMARY

$$\text{IRRITATION INDEX} = \frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.11$$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2-FLUOROTOLUENE CONCENTRATION TESTED : 100%

SOURCE : REIDEL-de HAËN AG VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 95-52-3
Purity 99.8%
Batch No. 92500

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
1								
	ERYTHEMA	0	1	0	0			
	OEDEMA	0	0	0	0			
2								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
3								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.11$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : cis CYCLOOCTENE CONCENTRATION TESTED : 100%

SOURCE : FLUKA VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : SIX

CAS No. 931-87-3 EXPOSURE TIME : 4 hours

Purity 95%

Product No. 29650

ANIMAL No.	1	OBSERVATION INTERVAL (days)					
		1h	1d	2d	3d	7d	14d
ERYTHEMA		0	2	3	1	1	0
OEDEMA		0	1	1	0	0	0

ANIMAL No.	2						
ERYTHEMA		0	1	1	1	1	0
OEDEMA		0	0	0	0	0	0

ANIMAL No.	3						
ERYTHEMA		0	2	3	1	1	0
OEDEMA		0	1	1	0	0	0

ANIMAL No.	4						
ERYTHEMA		0	2	2	1	1	0
OEDEMA		0	1	1	0	0	0

ANIMAL No.	5						
ERYTHEMA		0	1	1	1	0	0
OEDEMA		0	0	0	0	0	0

ANIMAL No.	6						
ERYTHEMA		0	1	2	1	0	0
OEDEMA		0	0	1	0	0	0

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.89$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 1,9-DECADIENE CONCENTRATION TESTED : 100%
 SOURCE : ALDRICH VOLUME TESTED : 0.5ml
 SPECIFICATION : No. OF RABBITS : THREE
 CAS No. 1647-16-1 EXPOSURE TIME : 4 hours
 Purity 97%
 Product No. 11,830-3

ANIMAL No.	1	OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	0		
OEDEMA		1	1	1	1	0		
OBSERVATIONS		FB		FB				

ANIMAL No.	2	OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	0		
OEDEMA		1	1	1	1	0		
OBSERVATIONS		FB		FB	FB			

ANIMAL No.	3	OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	0		
OEDEMA		1	1	1	1	0		
OBSERVATIONS		FB		FB	FB			

FB = FAINT BLANCHING

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 3.0$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 1,5-HEXADIENE CONCENTRATION TESTED : 100%

SOURCE : FLUKA VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 592-42-7 EXPOSURE TIME : 4 hours

Purity 97%

Product No. 52440

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 1,13-TETRADECADIENE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

EXPOSURE TIME : 4 hours

CAS No. 21964-49-8

Purity 97%

Product No. 33,364-6

ANIMAL No.		OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d	14d	21d
1								
	ERYTHEMA	0	2	2	2	1	0	0
	OEDEMA	1	1	1	0	0	0	0
2								
	ERYTHEMA	0	1	1	1	1	1	0
	OEDEMA	0	0	0	0	0	0	0
3								
	ERYTHEMA	0	1	1	1	1	0	0
	OEDEMA	0	0	0	0	0	0	0
4								
	ERYTHEMA	0	2	2	1	1	0	0
	OEDEMA	0	1	0	0	0	0	0

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.67$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : SODIUM BISULPHITE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH WEIGHT TESTED : 0.5g

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 7631-90-5 EXPOSURE TIME : 4 hours

Purity >97%

Product No. 24397-3

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1d	2d	3d	7d	14d		
1	ERYTHEMA	1	1	1				
	OEDEMA	0	0	0				
2	ERYTHEMA	1	1	1				
	OEDEMA	0	0	0				
3	ERYTHEMA	1	1	1				
	OEDEMA	0	0	0				

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.0$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : SODIUM CHLORITE CONCENTRATION TESTED : 34.5%aq
 SOURCE : ALDRICH VOLUME TESTED : 0.5ml*
 SPECIFICATION : No. OF RABBITS : THREE
 CAS No. 7758-19-2 EXPOSURE TIME : 4 hours
 Purity tech. 80%
 Product No. 24,415-5 *not neutralised

		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	5d	7d	9d
ANIMAL No.	1							
ERYTHEMA		0	1	1	1	0	0	0
OEDEMA		0	0	0	0	0	0	0
OBSERVATIONS						Dr	Dr	

ANIMAL No.	2							
ERYTHEMA		0	0	0	0			
OEDEMA		0	0	0	0			

ANIMAL No.	3							
ERYTHEMA		0	0	0	0			
OEDEMA		0	0	0	0			

Dr = DRYNESS OF THE SKIN

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.33$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : BENZYL ACETONE CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 2550-26-7 EXPOSURE TIME : 4 hours

Purity 99.3%

Spec. No. 2660003

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	0.5	0	0	0	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	0.5	0.5	0.5	0.5	0		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	1.5	2	2	2	0.5		
	OEDEMA	0	0.5	0.5	0.5	0		
4								
	ERYTHEMA	0.5	1.5	1.5	1.5	0		
	OEDEMA	0	0.5	0.5	0	0		

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.21$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DIACETYL CONCENTRATION TESTED : 100%

SOURCE : IFF VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 431-03-8 EXPOSURE TIME : 4 hours

Purity 98.3%

Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	1	1	1	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	0.5	0.5	0.5	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	1	1	1	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	0	0	0	0		
OEDEMA		0	0	0	0	0		

PRIMARY

$$\text{IRRITATION INDEX} = \frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.63$$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : cis-JASMONE CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 488-10-8 EXPOSURE TIME : 4 hours

Purity >98%

Spec. No. 6340001

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1.5		
OEDEMA		0	1.5	1.5	1	0.5		
OBSERVATIONS		De*						

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	1.5	1	0.5		
OEDEMA		1	0.5	0.5	0	0.5		
OBSERVATIONS		De						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2.5	1.5	1.5		
OEDEMA		1	1	2	0.5	2		
OBSERVATIONS		De						

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	2	1.5	1	0.5		
OEDEMA		0	1	0.5	0	0		
OBSERVATIONS		De*						

De = DESQUAMATION FROM THE SKIN (De* = MARKED)

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.58$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : isoLONGIFOLENE KETONE # CONCENTRATION TESTED : 100%

SOURCE : IFF VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 33407-62-4 EXPOSURE TIME : 4 hours

Purity 90.0

Spec. No. -

: synonym for Piconia

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	2	1.5	1	0		
OEDEMA		0.5	0.5	0	0	0		
OBSERVATIONS			Des	Des	Des	Des		

ANIMAL No.	2							
ERYTHEMA		0	2.5	2	2	1		
OEDEMA		0	3	0.5	0.5	0		
OBSERVATIONS						De		

ANIMAL No.	3							
ERYTHEMA		1	2.5	2	2	3.5		
OEDEMA		1.5	4	2.5	2	0		
OBSERVATIONS			T	TY	TY	TH		

ANIMAL No.	4							
ERYTHEMA		0.5	2	1.5	1.5	0		
OEDEMA		0	0	0.5	0	0		
OBSERVATIONS						Des		

De = DESQUAMATION FROM THE SKIN (Ds = SLIGHT)

T = THICKENED

H = HARDENED

Y = YELLOW DISCOLORATION

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 3.0$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : METHYL LAVENDER KETONE CONCENTRATION TESTED : 100%

SOURCE : IFF VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 67633-95-8 EXPOSURE TIME : 4 hours

Purity >98.0%

Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	0		
OEDEMA		2	1.5	1	1	0		
OBSERVATIONS		De*						

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		4	1	1	1.5	1.5		
OBSERVATIONS		De						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		4	2.5	2	1.5	1		
OBSERVATIONS		De*						

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2.5	3.5	3.5		
OEDEMA		3	2	2.5	2	2		
OBSERVATIONS		DesH						

De = DESQUAMATION FROM THE SKIN (De* = MARKED
Des = SLIGHT)

H = HARDENED SKIN

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.79$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DICHLORO-2,3-PROPIONITRILE CONCENTRATION TESTED : 100%

SOURCE : ELF ATOCHEM VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : CAS No. 2601-89-0 EXPOSURE TIME : 3 mins
Purity 96.3%

ANIMAL No.	1	OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d	10d	14d
ERYTHEMA		2	2	2	2	0		
OEDEMA		2	0	0	0	0		

ANIMAL No.	2	OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d	10d	14d
ERYTHEMA		1	2	2	2	2	1	1
OEDEMA		0	0	0	0	0	0	0
OBSERVATIONS						Dr	Dr	Dr

ANIMAL No.	3	OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d	10d	14d
ERYTHEMA		2	2	2	2	2	2	2
OEDEMA		2	0	0	0	0	0	0
OBSERVATIONS						Dr	Dr	Dr

Dr = DRYNESS OF THE SKIN

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.0$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 3-DIETHYLAMINO-PROPIONITRILE CONCENTRATION TESTED : 100%

SOURCE : ELF ATOCHEM VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 5351-04-2 EXPOSURE TIME : 4 hours

Purity 99.8%

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
1								
	ERYTHEMA	1	0	0	0			
	OEDEMA	0	0	0	0			
2								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
3								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : CARVACROL CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 499-75-2 EXPOSURE TIME : 4 hours

Purity 100%

Spec. No. 3362701

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	4	4	4	4		
OEDEMA		4	1	-	-	-		
OBSERVATIONS		Br	EH	EH	EH	EH		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	4	4	4	4		
OEDEMA		4	-	-	-	-		
OBSERVATIONS		Br	EH	EH	EH	EH		

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	4	4	4	DEAD		
OEDEMA		3	2	-	-	-		
OBSERVATIONS		Br	E	EH	EH			

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	4	4	4	4		
OEDEMA		3	2	-	-	-		
OBSERVATIONS		Br		EH	EH	EH		

Br = BROWN STAINING

E = ESCHAR

H = SKIN HARDENED

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = >4$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2-tertiary-BUTYL PHENOL CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : SIX

CAS No. 88-18-6 EXPOSURE TIME : 4 hours

Purity 99%

Product No. B9,940-5

ANIMAL No.		OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	7d		
1	ERYTHEMA	1	4	4	4	4		
	OEDEMA	0	2	2	2	2		
	OBSERVATIONS	Di	Ne	Ne	Ne	Es		
2	ERYTHEMA	4	4	4	4	4		
	OEDEMA	1	1	1	1	1		
	OBSERVATIONS	Ne	Ne	Ne	Ne	Es		
3	ERYTHEMA	4	4	4	4	4		
	OEDEMA	1	1	2	1	1		
	OBSERVATIONS	nE	Ne	Ne	Ne	Es		
4	ERYTHEMA	4	4	4	4	4		
	OEDEMA	1	1	2	2	2		
	OBSERVATIONS	Ne	Ne	Ne	Ne	Es		
5	ERYTHEMA	4	4	4	4	4		
	OEDEMA	1	2	2	2	2		
	OBSERVATIONS	Ne	Ne	Ne	Ne	Es		
6	ERYTHEMA	4	4	4	4	4		
	OEDEMA	1	2	2	2	1		
	OBSERVATIONS	Ne	Ne	Ne	Ne	Es		

Ne = NECROSIS; Di = DISCOLOURATION; Es = ESCHAR

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 5.67$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : EUGENOL CONCENTRATION TESTED : 100%
 SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml
 No. OF RABBITS : FOUR
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 97-53-0
 Purity 99.9%
 Spec. No. 5002001

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
ERYTHEMA		0.5	2	2	2	0		
OEDEMA		0.5	1.5	1.5	1	0		

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
2								
ERYTHEMA		0.5	1.2	1.5	1.5	0		
OEDEMA		0.5	1.5	1	0.5	0		

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
3								
ERYTHEMA		1.5	2	2	2	1		
OEDEMA		1	0.5	1	0.5	0.5		

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
4								
ERYTHEMA		2	2	2	2	2		
OEDEMA		1	1	1	1	0.5		
OBSERVATIONS						Des		

Des = SLIGHT DESQUAMATION FROM THE SKIN

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 2.92$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : GUAIACOL CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 90-05-1 EXPOSURE TIME : 4 hours

Purity 99.4%

Spec. No. 5332001

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	0.5	
OEDEMA		0.5	1.5	1	0.5	0	

ANIMAL No.	2	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	1	0.5	0	
OEDEMA		0	0.5	0.5	0	0	

ANIMAL No.	3	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1.5	2	2	2	1	
OEDEMA		0.5	0.5	0.5	0.5	0	

ANIMAL No.	4	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1.5	2	2	2	1	
OEDEMA		0.5	0.5	0.5	0.5	0	

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.38$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 4,4-METHYLENE bis CONCENTRATION TESTED : 100%
(2,6-DITERTIARYBUTYL PHENOL)

SOURCE : ALDRICH VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 118-82-1
Purity 98%
Product No. 27,792-4

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : p-TOLYL ALCOHOL CONCENTRATION TESTED : 100%

SOURCE : IFF WEIGHT TESTED : 0.5g

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 589-18-4 EXPOSURE TIME : 4 hours

Purity -

Spec. No. -

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	0.5	0.5	0	0	0		
	OEDEMA	0	0	0	0	0		
4								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.04$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DIMETHYL DISULPHIDE CONCENTRATION TESTED : 100%
 SOURCE : ALDRICH VOLUME TESTED : 0.5ml
 No. OF RABBITS : SIX
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 624-92-0
 Purity 99.0%
 Product No. 32,041-2

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
1								
	ERYTHEMA	2	2	2	1			
	OEDEMA	1	2	1	0			
2								
	ERYTHEMA	1	2	2	2			
	OEDEMA	2	1	1	1			
3								
	ERYTHEMA	1	2	2	2			
	OEDEMA	2	2	2	1			
4								
	ERYTHEMA	1	2	1	1			
	OEDEMA	1	2	1	0			
5								
	ERYTHEMA	1	2	2	1			
	OEDEMA	1	2	1	0			
6								
	ERYTHEMA	2	2	2	2			
	OEDEMA	2	2	2	1			

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.0$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : DI-n-PROPYL DISULPHIDE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 629-19-6 EXPOSURE TIME : 4 hours

Purity 99.2%

Product No. 14,922-5

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	10d	13d
ERYTHEMA		2	2	2	1			
OEDEMA		2	0	0	0			

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	10d	13d
ERYTHEMA		2	3	3	3	0	0	0
OEDEMA		2	0	0	0	0	0	0
OBSERVATIONS						Dr	Dr	

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	10d	13d
ERYTHEMA		2	3	3	3	0	0	0
OEDEMA		2	0	0	0	0	0	0
OBSERVATIONS						Dr	Dr	

Dr = DRYNESS OF THE SKIN

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.56$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 3,3'-DITHIODIPROPIONIC ACID CONCENTRATION TESTED : 100%

SOURCE : ALDRICH WEIGHT TESTED : 500mg

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 1119-62-6 EXPOSURE TIME : 4 hours

Purity 99%

Product No. 10,901-0

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
1								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
2								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
3								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
4								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$

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SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2-MERCAPTOETHANOL SODIUM CONCENTRATION TESTED : 45%aq.
 SOURCE : ELF ATOCHEM VOLUME TESTED : 1.05ml*
 No. OF RABBITS : THREE
 SPECIFICATION : EXPOSURE TIME : 3 mins
 CAS No. 37482-11-4
 Purity 45.21% aqueous solution
 *1.05ml of 45.21%aq = 0.5g

THREE MINUTE EXPOSURE

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	7d	10d	12d
ERYTHEMA		0	2	2	2	0		
OEDEMA		0	4	2	2	0		
OBSERVATIONS				Dr	Dr			

ANIMAL No.	2							
ERYTHEMA		2	2	2	2	0		
OEDEMA		2	2	2	0	0		
OBSERVATIONS						Dr		

ANIMAL No.	3							
ERYTHEMA		4	Cr	Cr	Cr	Cr	Cr	0
OEDEMA		0	4	4	4	0	0	0

Dr = DRYNESS OF THE SKIN

Cr = CRUST

COMMENTS :

ONE HOUR AFTER REMOVAL OF THE PATCH AFTER A 4 HOUR APPLICATION TO A SINGLE ANIMAL, SIGNS OF LESIONS THROUGH THE WHOLE DEPTH OF THE SKIN WERE OBSERVED AND THE ANIMAL WAS SACRIFICED FOR HUMANITARIAN REASONS.
 AFTER A 3 MINUTE EXPOSURE NO ULCERATION OR NECROSIS WAS SEEN.

PRIMARY

IRRITATION = NOT POSSIBLE TO CALCULATE INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 3-MERCAPTO-1-PROPANOL CONCENTRATION TESTED : 100%
 SOURCE : ELF ATOCHEM VOLUME TESTED : 0.5ml
 No. OF RABBITS : SIX
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 63947-56-8
 Purity 99.6%

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
1								
	ERYTHEMA	1	1	1	1			
	OEDEMA	1	1	1	0			
	OBSERVATIONS	Ex	Ex	EDDr	EDDr			
2								
	ERYTHEMA	1	1	0	0			
	OEDEMA	1	0	0	0			
	OBSERVATIONS	Ex						
3								
	ERYTHEMA	1	1	0	0			
	OEDEMA	1	0	0	0			
4								
	ERYTHEMA	1	1	1	0			
	OEDEMA	1	0	0	0			
5								
	ERYTHEMA	1	1	2	2			
	OEDEMA	0	1	1	1			
	OBSERVATIONS	Ex	ExDr	Dr				
6								
	ERYTHEMA	1	1	1	1			
	OEDEMA	1	0	0	0			

Ex = REACTION EXTENDED OUTSIDE APPLICATION AREA

De = DESQUAMATION; Dr= DRYNESS; EDDr = Ex + De + Dr

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.11$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 4-(METHYLTHIO)- BENZALDEHYDE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 3446-89-7 EXPOSURE TIME : 4 hours

Purity 98.2%

Product No. 22,277-1

ANIMAL No.	1	OBSERVATION INTERVAL (days)						
		1h	1d	2d	3d	4d	7d	8d
ERYTHEMA		1	1	1	1	0	0	0
OEDEMA		0	0	0	0	0	0	0
OBSERVATIONS					Dr	Dr	Dr	

ANIMAL No.	2							
		1h	1d	2d	3d	4d	7d	8d
ERYTHEMA		2	2	1	1	0	0	0
OEDEMA		0	0	0	0	0	0	0
OBSERVATIONS					Dr	Dr	Dr	

ANIMAL No.	3							
		1h	1d	2d	3d	4d	7d	8d
ERYTHEMA		0	1	0	0			
OEDEMA		0	0	0	0			

Dr = DRYNESS OF THE SKIN

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.89$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : SOAP FROM 20/80 CONCENTRATION TESTED : 100%
 COCONUT OIL/TALLOW

SOURCE : UNICHEMA INTERNATIONAL WEIGHT TESTED : 0.5g
 No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. NO SINGLE CAS No. APPLICABLE
 Purity -
 Trade name PRISAVON 1981

ANIMAL No.	1	OBSERVATION						INTERVAL (days)
		35mn	1d	2d	3d	7d	14d	
ERYTHEMA		2	1	1	1	1	0	
OEDEMA		2	1	1	1	1	0	

ANIMAL No.	2	OBSERVATION						INTERVAL (days)
		35mn	1d	2d	3d	7d	14d	
ERYTHEMA		2	1	1	1	1	0	
OEDEMA		2	1	1	1	0	0	

ANIMAL No.	3	OBSERVATION						INTERVAL (days)
		35mn	1d	2d	3d	7d	14d	
ERYTHEMA		2	2	1	1	1	0	
OEDEMA		2	1	1	1	1	0	

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.11$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : SOAP FROM 20/80 COCONUT/PALM OILS CONCENTRATION TESTED : 100%

SOURCE : UNICHEMA INTERNATIONAL WEIGHT TESTED : 0.5g
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. NO SINGLE CAS No. APPLICABLE
Purity -
Trade name PRISAVON 9240

ANIMAL No.	1	OBSERVATION INTERVAL (days)					
		40mn	1d	2d	3d	7d	14d
ERYTHEMA		2	2	2	2	0	0
OEDEMA		1	0	0	0	0	0

ANIMAL No.	2	OBSERVATION INTERVAL (days)					
		40mn	1d	2d	3d	7d	14d
ERYTHEMA		2	2	2	2	1	0
OEDEMA		3	1	1	1	0	0
OBSERVATIONS		Sc					

ANIMAL No.	3	OBSERVATION INTERVAL (days)					
		40mn	1d	2d	3d	7d	14d
ERYTHEMA		2	2	2	2	1	0
OEDEMA		3	1	1	1	0	0

Sc = SCALINESS

PRIMARY
IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.67$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : SODIUM LAURYL SULPHATE CONCENTRATION TESTED : 50%aq

SOURCE : VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 151-21-3 EXPOSURE TIME : 4 hours

Purity 94.8%

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		4½h	1d	2d	3d			
1	ERYTHEMA	3	4	4	4			
	OEDEMA	1	2	2	2			
2	ERYTHEMA	3	4	4	4			
	OEDEMA	2	2	2	2			
3	ERYTHEMA	3	3Ex	4Ex	4Ex			
	OEDEMA	1	2	2	3			

Ex = REACTION EXTENDED OUTSIDE APPLICATION SITE

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 6.0$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : SODIUM LAURYL SULPHATE CONCENTRATION TESTED : 20%aq

SOURCE : VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 151-21-3 EXPOSURE TIME : 4 hours

Purity 94.8%

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		4½h	1d	2d	3d			
1	ERYTHEMA	2Ex	3Ex	3Ex	4Ex			
	OEDEMA	1	2	2	3			
2	ERYTHEMA	2Ex	4Ex	4Ex	4Ex			
	OEDEMA	1	3	3	3			
3	ERYTHEMA	2	4Ex	4Ex	4Ex			
	OEDEMA	1	3	4	4			

Ex = REACTION EXTENDED OUTSIDE APPLICATION SITE

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 6.78$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : SODIUM UNDECYLENATE CONCENTRATION TESTED : 33%aq
 SOURCE : ELF ATOCHEM VOLUME TESTED : 0.5ml*
 No. OF RABBITS : THREE
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 3398-33-2
 *of 33.2% aqueous solution

ANIMAL No.	1	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	5d	7d	10d
ERYTHEMA		2	1	1	1	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	2	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	5d	7d	10d
ERYTHEMA		2	2	2	2	1	0	0
OEDEMA		0	0	0	0	0	0	0
OBSERVATIONS						Dr	Dr	

ANIMAL No.	3	OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d	5d	7d	10d
ERYTHEMA		2	2	2	2	1	0	0
OEDEMA		0	0	0	0	0	0	0
OBSERVATIONS						Dr	Dr	

Dr = DRYNESS OF THE SKIN

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 1.67$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : GLYCEROL TRI-isoSTEARATE CONCENTRATION TESTED : 100%

SOURCE : UNICHEMA INTERNATIONAL VOLUME TESTED : 0.5ml
No. OF RABBITS : THREE

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 26942-95-5
Purity -
Trade name PRISORINE 2041

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	1	1	1	1	0		
	OEDEMA	0	0	0	0	0		
2								
	ERYTHEMA	1	1	1	1	0		
	OEDEMA	0	0	0	0	0		
3								
	ERYTHEMA	0	0	0	0	0		
	OEDEMA	0	0	0	0	0		

PRIMARY
IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0.67$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : GLYCEROL TRIUNDECANOATE CONCENTRATION TESTED : 100%

SOURCE : ELF ATOCHEM WEIGHT TESTED : 0.5g
No. OF RABBITS : THREE

SPECIFICATION : CAS No. 13552-80-2 EXPOSURE TIME : 4 hours
Purity 97.7%

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
1								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
2								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
3								
	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 4-AMINO-1,2,4-TRIAZOLE CONCENTRATION TESTED : 100%

SOURCE : ALDRICH WEIGHT TESTED : 0.5g

SPECIFICATION : No. OF RABBITS : SIX

CAS No. 584-13-4 EXPOSURE TIME : 4 hours

Purity 96.7%

Product No. A8,180-3

ANIMAL No.		OBSERVATION				INTERVAL (days)		
		1h	1d	2d	3d			
1	ERYTHEMA	1	0	0	0			
	OEDEMA	0	0	0	0			
2	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
3	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
4	ERYTHEMA	1	0	0	0			
	OEDEMA	0	0	0	0			
5	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			
6	ERYTHEMA	0	0	0	0			
	OEDEMA	0	0	0	0			

PRIMARY

IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 0$

INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : BEECHWOOD CREOSOTE OIL CONCENTRATION TESTED : 100%

SOURCE : IFF VOLUME TESTED : 0.5ml
No. OF RABBITS : FOUR

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 8021-39-4
Purity -
Spec. No. -

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		-	-	2	4	4		
OEDEMA		3	-	3	2	-		
OBSERVATIONS		B1	B1S	ICS	IE	E		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		-	2	4	4	4		
OEDEMA		4	3	2	2	-		
OBSERVATIONS		B1	ICS	BaE	IE	E		

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		-	2	2	4	4		
OEDEMA		4	3	3	-	-		
OBSERVATIONS		B1	IC	IC	EH	ES1		

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	3	3.5	4		
OEDEMA		4	3.5	2	1	-		
OBSERVATIONS						E		

B1 = BLACKENED

S = SUNKEN

I = IRRITATION AT EDGES

C = CENTRE BLACKENED

E = ESCHAR

Ba = BLACKENED AREA

H = HARDENED

S1 = SLOUGHING

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = >5$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 6-BUTYL-2,4-DIMETHYL-DIHYDROPYRANE CONCENTRATION TESTED : 100%

SOURCE : QUEST VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 24237-00-1 EXPOSURE TIME : 4 hours

Purity 83.0

Spec. No. 38462

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	1	1.5	1	0		
OEDEMA		0	0.5	0	0	0		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	2	2	2	1.5		
OEDEMA		3	1	0.5	0.5	0		

OBSERVATIONS

De

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	2	1.5	1.5	0.5		
OEDEMA		0	0.5	0	0	0		

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	2	2	2	0.5		
OEDEMA		0.5	1	0	0	0		

OBSERVATIONS

De*

De = DESQUAMATION FROM TREATED SKIN (De* = MARKED)

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.04$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : n-DECYLIDENE METHYL ANTHRANILATE # CONCENTRATION TESTED : 100%

SOURCE : BRI VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 67874-67-3 EXPOSURE TIME : 4 hours

Purity -

Spec. No. -

: synonym for decanal-methylanthranilate (Schiff base)

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	1.5	1	1	0		
OEDEMA		0	1	0.5	0	0		
OBSERVATIONS		Des						

ANIMAL No.	2							
ERYTHEMA		0	1.5	1.5	1	0		
OEDEMA		0	0	0.5	0.5	0		

ANIMAL No.	3							
ERYTHEMA		1	2	2	2	0		
OEDEMA		0	0.5	0.5	0	0		

ANIMAL No.	4							
ERYTHEMA		0	2	1.5	1.5	0.5		
OEDEMA		0	1.5	1	0.5	0		

Des = SLIGHT DESQUAMATION FROM THE SKIN

THE TREATED SKIN WAS STAINED YELLOW IN ANIMALS AT THE 1 & 24hr READINGS

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 2.08$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 2,6-DIMETHYL-2,4,6-OCTATRIENE CONCENTRATION TESTED : 100%

SOURCE : BBA VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 3016-19-1 EXPOSURE TIME : 4 hours

Purity >95%

Spec. No. -

ANIMAL No.	1	OBSERVATION				INTERVAL (days)	
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	1.5	
OEDEMA		0.5	1	0.5	0.5	0.5	

ANIMAL No.	2						
		1h	1d	2d	3d	7d	
ERYTHEMA		1.5	2.5	2	2	1.5	
OEDEMA		2	2	0.5	0.5	0	
OBSERVATIONS		De					

ANIMAL No.	3						
		1h	1d	2d	3d	7d	
ERYTHEMA		1.5	2	2	2	2	
OEDEMA		3	2	0.5	0.5	0	
OBSERVATIONS		De					

ANIMAL No.	4						
		1h	1d	2d	3d	7d	
ERYTHEMA		1	2	2	2	2	
OEDEMA		2	1.5	1	1	1	
OBSERVATIONS		DeTs					

De = DESQUAMATION FROM TREATED SKIN

Ts = SLIGHT THICKENING

PRIMARY
IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.0$
INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : 1-FORMYL-1-METHYL-4 (4-METHYL-3-PENTEN-1-YL)
-3-CYCLOHEXENE CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml
No. OF RABBITS : FOUR

SPECIFICATION : EXPOSURE TIME : 4 hours
CAS No. 66327-54-6
Purity 99.8%
Spec. No. 9644601

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	2		
OEDEMA		0.5	2.5	2	1.5	1		
OBSERVATIONS		De						

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0.5	2	2	2	1		
OEDEMA		0	1	1.5	1.5	0		
OBSERVATIONS		De						

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	2	2	2	1.5		
OEDEMA		0.5	2	1	1	0.5		
OBSERVATIONS		Des						

ANIMAL No.	4	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1.5	2	2	2	2		
OEDEMA		0.5	0.5	0.5	0.5	0.5		

De = DESQUAMATION FROM THE SKIN (Des = SLIGHT)

PRIMARY

IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.29$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : d-LIMONENE [1] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : THREE

CAS No. 5989-27-5 EXPOSURE TIME : 4 hours

Purity 98.8%

Spec. No. 6588333

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	1		
OEDEMA		3	2	1	1	1		
OBSERVATIONS		De*						

ANIMAL No.	2							
		1h	1d	2d	3d	7d		
ERYTHEMA		2	2	2	2	2		
OEDEMA		4	2	2	2	3		
OBSERVATIONS		De						

ANIMAL No.	3							
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	1		
OEDEMA		3	2	1	1	1		
OBSERVATIONS		De*						

De = DESQUAMATION FROM SKIN SURFACE (De* = MARKED)

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.56$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : d-LIMONENE [2] CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 5989-27-5 EXPOSURE TIME : 4 hours

Purity 98.8%

Spec. No. 6588333

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		1	2	2	2	2		
OEDEMA		4	2	1	1	1		
OBSERVATIONS		Des						

ANIMAL No.	2							
ERYTHEMA		1	2	2	2	1		
OEDEMA		3	1	1	0	0		

ANIMAL No.	3							
ERYTHEMA		0	1	2	2	2		
OEDEMA		3	2	1	1	2		

ANIMAL No.	4							
ERYTHEMA		2	2	2	2	2		
OEDEMA		3	2	2	2	2		
OBSERVATIONS		Des						

Des = SLIGHT DESQUAMATION FROM SKIN SURFACE

PRIMARY
 IRRITATION INDEX = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 3.25$

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : LINALOOL OXIDE CONCENTRATION TESTED : 100%

SOURCE : GIVAUDAN-ROURE VOLUME TESTED : 0.5ml

SPECIFICATION : No. OF RABBITS : FOUR

CAS No. 1365-19-1 EXPOSURE TIME : 4 hours

Purity 97.2%

Spec. No. 7852501

ANIMAL No.		OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
1								
	ERYTHEMA	1.5	1.5	2	2	0.5		
	OEDEMA	0	0.5	1	1	0.5		
2								
	ERYTHEMA	1	2	2	2	0		
	OEDEMA	0.5	1	0.5	0.5	0		
3								
	ERYTHEMA	1	2	2	2	1		
	OEDEMA	0.5	0.5	0.5	0.5	0		
4								
	ERYTHEMA	1	2	2	2	1		
	OEDEMA	0.5	0.5	0.5	0.5	0		

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA 24/48/72hr} + \text{SUM OEDEMA 24/48/72hr}}{3 \times \text{no of animals}} = 2.58$
 INDEX

SKIN IRRITATION DATA FOR INDIVIDUAL RABBITS

CHEMICAL : TONALID # CONCENTRATION TESTED : 100%
 SOURCE : FIRMENICH WEIGHT TESTED : 0.5g
 No. OF RABBITS : THREE
 SPECIFICATION : EXPOSURE TIME : 4 hours
 CAS No. 21145-77-7
 Purity >97%
 Spec. No. 88152

: tradename for 6-acetyl-1,1,2,4,4,7-hexamethyltetraline

ANIMAL No.	1	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	0	0	0	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	2	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	0	0	0	0		
OEDEMA		0	0	0	0	0		

ANIMAL No.	3	OBSERVATION					INTERVAL (days)	
		1h	1d	2d	3d	7d		
ERYTHEMA		0	0	0	0	0		
OEDEMA		0	0	0	0	0		

PRIMARY
 IRRITATION = $\frac{\text{SUM ERYTHEMA } 24/48/72\text{hr} + \text{SUM OEDEMA } 24/48/72\text{hr}}{3 \times \text{no of animals}} = 0$
 INDEX

APPENDIX B. SKIN CORROSION

Definitions of Skin Corrosion

OECD Test Guideline 404 defines dermal corrosion as irreversible tissue damage, but gives no criteria for assessment. The above OECD definition was used in this study, observation of necrosis or eschar formation being interpreted as evidence of corrosive effects.

There is reasonable agreement on the definition of skin corrosion between those classification schemes which include corrosion. The following definitions are used:

AUSTRIA	Destruction of the whole thickness of skin tissue,
CANADA	Evidence of visible necrosis of human skin tissue; corrosive to skin when tested in accordance with OECD Test Guideline 404,
EEC	Full thickness tissue destruction in at least one animal (of three tested),
FINLAND	Full thickness destruction of tissue in at least one animal,
NORWAY	Destruction of living tissue leaving a sore,
SWEDEN	Damage of tissue causing burns,
US-CPSC	Visible destruction or irreversible alterations in tissue,
US-OSHA	Destruction or irreversible change in the structure of tissue in two animals (of six tested),
US-DoT	Visible necrosis of the skin,
UN	Full thickness destruction of the skin.

Note: an ECETOC review (ECETOC,1990) comments that the EEC definition should be amended to make clear whether "full thickness destruction refers to the epidermis or both epidermis and dermis".

Some authorities recognise more than one category of skin corrosion:

3 Categories: United Nations, US Department of Transportation,

2 Categories: European Union, Austria, Sweden,

1 Category: Finland, Norway, US Consumer Product Safety Commission.

In each case the discrimination between categories is on the basis of the duration of the exposure following which the 'corrosive' effect was observed, for example:

UNITED NATIONS:

Packing Group I (very dangerous substances)

- effect observed up to 60 minutes after the exposure time of 3 minutes or less,

Packing Group II (substances presenting medium danger)

- effect observed up to 14 days after the exposure time of more than 3, and not more than 60 minutes,

Packing Group III (substances presenting minor danger)

- effect observed up to 14 days after the exposure time of more than 60 minutes and not more than 4 hours.

US Department of Transportation (US-DoT):

Packing Group I

- Substances that cause visible necrosis of the skin at the site of contact when tested on the intact skin of an animal for a period of not more than 3 minutes,

Packing Group II

- Substances that cause visible necrosis of the skin at the site of contact when tested on the intact skin of an animal for a period of more than 3 but not more than 60 minutes,

Packing Group III

- Substances that cause visible necrosis of the skin at the site of contact when tested on the intact skin of an animal for a period of not more than four hours.

Note: the UN-RTDG (1993) phraseology was the same as that of US-DoT (1993) before the former was updated from 'visible necrosis' to 'full thickness destruction' in 1993. Presumably the US-DoT wording will in due time be amended to match that of UN-RTDG.

EEC: causes severe burns (R35) - up to 3 minutes exposure,
causes burns (R34) - up to 4 hours exposure.

AUSTRIA: severely corrosive - up to 3 minutes exposure,
corrosive - up to 4 hours exposure.

SWEDEN: highly corrosive - up to 3 minutes exposure,
corrosive - up to 4 hours exposure.

Criteria for Identification of "Corrosive Effects"

Other than the definitions of "corrosive" effects ("full tissue destruction" etc), the only test method to present criteria on the basis of which a test material can be identified as being "corrosive" is 16 CFR 173.240 (US-CPSC, 1994):

"Corrosion will be considered to have resulted if the substances in contact with the rabbit skin have caused destruction or irreversible alteration of the tissue on at least two out of each six rabbits tested. Tissue destruction is considered to have occurred if, at any of the readings, there is ulceration or necrosis. Tissue destruction does not include merely sloughing of the epidermis, or erythema, oedema, or fissuring"

Additional Criteria for Classification as Corrosive

References to classification as corrosive on the basis of "human experience" are made by:

CANADA: "if there is evidence that it causes visible necrosis of human skin tissue" (Canada, 1987),

US-CPSC: "if, by human experience, visible destruction or irreversible alterations in tissue occur at the site of contact" (US-CPSC, 1994),

US-DoT: "a corrosive material is a liquid or solid that causes visible destruction or irreversible alterations in human skin tissue at the site of contact" (US-DoT, 1993),

UN: "account should be taken of human experience in instances of accidental exposure. In the absence of human experience the grouping should be based on data obtained from animal experiments in accordance with OECD Test Guideline 404" (UN-RTDG, 1993).

APPENDIX C. CLASSIFICATION BASED ON SKIN CORROSION OR IRRITATION

The following summary of classification schemes is believed to be correct at the time of publication. Readers are advised to check the validity of the statements made.

C.1. European Community (EEC, 1993)

Definitions:

Corrosion: symbol/code: C

- a substance or a preparation is considered to be corrosive if, when it is applied to intact healthy animal skin, it produces full thickness destruction of skin tissue on at least one animal during the test for skin irritation cited in Annex V or during an equivalent method or if the result can be predicted, for example from strongly acidic or alkaline reactions (demonstrated pH of 2 or less or 11.5 or greater. Alkaline or acidic reserve should also be taken into account).

Two levels of corrosivity are recognised by the assignment of different risk phrases:

- R 35: Causes severe burns if
 - when applied to healthy intact animal skin, full thickness destruction of skin tissue occurs as a result of up to 3 minutes exposure, or if this result can be predicted;
- R 34: Causes burns if
 - when applied to healthy intact animal skin, full thickness destruction of skin tissue occurs as a result of up to 4 hours exposure, or if this result can be predicted.

Irritation: symbol/code Xi

- R 38: Irritating to skin
 - substances or preparations which cause significant inflammation of the skin which persists for at least 24 hours after an exposure period of up to 4 hours determined on the rabbit according to the cutaneous irritation test method cited in Annex V.

Inflammation of the skin is significant if:

- the mean value of the scores for either erythema and eschar formation or oedema formation, calculated over all the animals tested, is 2 or more,
- or, in the case where the Annex V test has been completed using 3 animals, either erythema and eschar formation or oedema formation equivalent to a mean value of 2 or more calculated for each animal separately has been observed in 2 or more animals.

In both cases all scores at each of the reading times (24, 48, and 72 hours) for an effect should be used in calculating the respective mean scores.

Inflammation of the skin is also significant if it persists in at least two animals at the end of the observation time. Particular effects e.g. hyperplasia, scaling, discolouration, fissures, scabs and alopecia should be taken into account.

Substances and preparations which cause significant inflammation of the skin, based on practical observation in man are also classified.

C.2. Canada (Canada, 1987)

Definitions:

Corrosion:

A product, material or substance shall be included in Class E - Corrosive Material if

- (a)
- (b) it is corrosive to skin when tested in accordance with OECD Test Guideline 404 (May 12 1981),
- (c) it is included in Class 8 in Part III of the Transportation of Dangerous Goods Regulations (TDGR),
- (d) it is a gas included in Division 4 of Class 2 in Part III of TDGR,
- (e) there is evidence that it causes visible necrosis of human skin tissue, or
- (f) it is an untested mixture containing a product, material or substance that meets the criteria referred to in paragraph (b) or (e) and is present at a concentration of at least 1%.

Skin irritation:

A pure substance or tested mixture falls into Subdivision B of Division 2 of Class D - Poisonous and Infectious Material if, in an animal assay,

- (a) mean erythema formation grade is 2
 - or more mean oedema formation grade is 2 or more
 - when tested in accordance with OECD Test Guideline No 404 (May 12, 1981) as measured at any of the times specified in the test.

C.3. Finland (Finland, 1986)

Definitions:

Corrosive: symbol C

- a substance which, when applied to healthy intact skin, causes full thickness destruction of tissue in at least one animal in a test carried out according to instructions, or if this result can be predicted, for example from the strong acidity or alkalinity of the substance.

Irritant to skin: symbol Xi

- a substance which, when applied to healthy intact skin, causes significant inflammation which is present 24 hours or more after the end of the exposure period in a test carried out according to instructions. Inflammation is significant if the mean value of the scores for either erythema and eschar formation, or oedema formation, is 2 or more.

C.4. United States of America

(a) Occupational Safety and Health Standards (US-OSHA, 1993)

Definitions:

Corrosive:

- a chemical that causes visible destruction or irreversible alterations in living tissue at the site of contact when tested on the intact skin of albino rabbits following an exposure period of 4 hours. This term shall not refer to action on inanimate surfaces.

Irritant:

- a chemical, which is not corrosive, but which causes a reversible inflammatory effect on living tissue by chemical action at the site of contact when tested on the intact skin of albino rabbits for 4 hours.

Evaluation criteria:

Skin irritation (method CFR 1500.41):

- Erythema and eschar formation, and oedema formation, are evaluated (a) 24 and 72 hours after removal of the patches on (b) intact and abraded rabbit skin, giving 4 values for each rabbit for both erythema and eschar formation and oedema formation. The total of the 8 values is divided by 4 to give the primary irritation score. If this empirical score is 5 or more, the chemical is a skin irritant.

(b) Federal Hazardous Substances Regulations (US-CPSC, 1994)

Definitions:

Corrosive:

- any substance which in contact with living tissue will cause destruction of tissue by chemical action, but shall not refer to action on inanimate surfaces.

Irritant:

- any (not corrosive) substance which on immediate, prolonged, or repeated contact with normal living tissue will induce a local inflammatory reaction.

Criteria for classification:

Corrosive:

- if, by human experience, visible destruction or irreversible alterations in tissue occur at the site of contact,
- if, when tested by the technique described in CFR 1500.41 the tissue at the site of contact is destroyed or changed irreversibly in 24 hours or less.

Irritant:

- includes "primary irritant to the skin" as well as substances irritant to the eye or to mucous membranes. "Primary irritant" means a substance that is not corrosive and that human experience data indicate is a primary irritant and/or means a substance that results in an empirical score of 5 or more when tested by the method described in CFR 1500.41.

Toxicity test methods:

- US Department of Transportation method (US-DoT, 1993) and CFR 1500.41 specified for skin corrosion and skin irritation respectively.

(c) Federal Insecticide, Fungicide, and Rodenticide Act (US-FIFRA, 1984)

FIFRA assigns products to one of four categories based on toxicological properties.

For skin effects, the criteria are as follows:

- Category I Corrosive (tissue destruction into the dermis and/or scarring),
- Category II Severe irritation at 72 hours (severe erythema or oedema),
- Category III Moderate erythema at 72 hours (moderate erythema),
- Category IV Mild or slight irritation (no irritation or slight erythema).

The labels of products assigned to Categories I, II, III, IV on the basis of skin effects are required to carry the signal words DANGER, WARNING, CAUTION, CAUTION respectively.

C.5. United Nations-Related Organisations

"CORROSIVES" constitute Class 8 of dangerous goods in the "Orange Book" (UN-RTDG, 1993).

Classification criteria.

Class 8 dangerous substances are allocated to the three packing groups based on the length of time of contact necessary to produce visible necrosis on intact animal skin:

Packing Group I (very dangerous substances):

- Substances that cause full thickness destruction of intact skin tissue within an observation period up to 60 minutes starting after the exposure time of three minutes or less,

Packing Group II (substances presenting medium danger):

- Substances that cause full thickness destruction of intact skin tissue within an observation period up to 14 days starting after the exposure time of more than three minutes but not more than 60 minutes,

Packing Group III (substances presenting minor danger):

- (a) Substances that cause full thickness destruction of intact skin tissue within an observation period up to 14 days starting after the exposure time of more than 60 minutes but not more than 4 hours,
- (b) Substances which are judged not to cause full thickness destruction of intact skin tissue but which exhibit a corrosion rate on steel or aluminium surfaces exceeding 6.25mm a year at a test temperature of 55°C.....

Toxicity test methods:

OECD Test Guideline 404 is to be used.

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