

Khera and Iverson, 1981

Guidelines/Criteria	
	Reference: Khera KS, Iverson F. 1981. Effects of pretreatment with SKF-525A, N-methyl-2-thioimidazole, sodium phenobarbital, or methyl cholanthrene on ethylenethiourea-induced teratogenicity in rats. Teratology 24:131-137.
In vivo Study Type Route of Administration Species & age of animals	Rat teratogenicity study ip or oral Female Wistar rats 175-200g
Study Duration	Dosed on day 13 of pregnancy, terminated at term
Type of Mixture Binary >2 components Similar acting or dissimilar What Mode of Action was investigated?	Yes No Dissimilar (though both are P450 inhibitors) Teratogenicity in general
Parameters/End points Measured Target organs/Critical effects Pharmacological changes or adverse effects	Number of live foetuses, resorptions+dead foetuses, foetal weight, long list of abnormalities Adverse
Individual Components Characterisation of individual compounds Name, exact chemical name, CAS no. Were dose responses established for individual components? Were no effect levels established? Were doses below the NO(A)ELs investigated?	SKF-525A (2-diethylaminoethyl-2,2-diphenylvalerate hydrochloride) and MMI (N-methyl-2-thioimidazole). Other chemicals were also tested but caused effects when dosed alone at the single dose tested. No, only single doses were tested At the single dose tested, neither SKF-525A nor MMI produced effects. No
Mixtures Investigated Number of dose levels How does the mixture make-up compare to individual components? (e.g. low dose) equivalents used? No. of technical replicates per exposure condition (<i>in vitro</i>) No. of animals per dose group (<i>in vivo</i>)	1 only No particular rationale. The mixture tested was at the single dose which had been tested for each component separately. 4 dams
Observations/Findings	No abnormalities or other effects of the mixture were observed.
Overall opinion (e.g. sufficient numbers of groups investigated, group sizes adequate, observations reproducible, low dose levels used investigated)	Good study, but only one dose level and of limited value to this report. Other chemicals are also reported in the same paper, but they caused effects alone at the single dose tested, or were only tested in mixture with chemicals which were not at NOELs, and so are not relevant to this report.