

Dipropylene glycol dibenzoate

Toxicological Data on the Unburnt Ingredient

[+ve, positive; -ve, negative; ?, equivocal]

with, with metabolic activation; without, without metabolic activation]

In vitro

Test system	Test conditions	Endpoint	Activation status	Results	Reference
Mouse lymphoma L5178Y	Study was apparently performed in accordance with OECD guideline 476 and in compliance with GLP. Mammalian cells were exposed at 150, 200, 225 and 250 ug/ml.	Mutation	With and without S9	-ve	Velsicol, 2001
Chinese hamster lung cells	Concentrations of 4.9, 9.8, 19.5, 39.1, 78.1, 156.3, 312.5 and 625 ug/ml were tested in this apparently high quality study for chromosomal aberrations, carried out in accordance with OECD guideline 473 and applying GLP.	Chromosome damage	With and without S9	-ve [A small response seen in the first test with S9 was apparently not reproduced in the repeat test or at harvest. This response was not considered to be	Velsicol, 2001. [Results appear to have been published in a brief abstract by McBriarty <i>et al.</i> 2000]

				indicative of clastogenic activity by the study authors. No further details available.]	
<i>Salmonella typhimurium</i> TA1535, TA1537, TA98, TA100, and <i>Escherichia coli</i> CM891 WP2	A range of concentrations from 5 to 5000 ug/plate were tested in an apparently high quality study performed under GLP and in accordance with the following guidelines: OECD 471 and 472.	Mutation	With and without S9	-ve	Velsicol, 2001
<i>Salmonella typhimurium</i> TA1535, TA100, TA1538, TA98, and TA1537. <i>Saccharomyces cerevisiae</i> D4	Up to 10 ul/plate were tested.	Mutation	With and without S9	-ve	Butz <i>et al.</i> 1982

References

Butz R.G. *et al.* (1982). Environmental safety assessment of dipropylene glycol dibenzoate. *Environmental Toxicology and Chemistry* 1, 337-346.

ChemIDplus Advanced. Internet site <http://chem.sis.nlm.nih.gov/chemidplus/> accessed 08/06/2006.

McBriarty *et al.* (2000). Toxicology of benzoflex 9-88 plasticizer. *Toxicologist* 54, 1.

Velsicol (2001). 'The robust summary for dipropylene glycol dibenzoate CASRN 27138-31-4' as submitted to the US Environmental Protection Agency for the Chemical Right to Know Program. Available on the Internet at <http://www.epa.gov/hpv/pubs/summaries/diglybnz/c13057rs.pdf>