

CAS 26761-40-0 (also 68515-49-1)

Substance name Diisodecyl Phthalate

Toxicity

Diisodecyl phthalate has been classified as a developmental toxicant by the National Toxicology Program Center for the Evaluation of Risks to Human Reproduction and by the state of California.^{1,2} The National Toxicology Program concluded that there is clear evidence of developmental toxicity.¹ Effects in animals included abnormal development of the fetal skeleton as well as reduced weight gain and survival of the pups.¹

Exposure

The Danish EPA found diisodecyl phthalate in a foam toy.³ Diisodecyl phthalate has also been found in teething rings and other toys.^{4,5}

Monocarboxisononyl phthalate, a metabolite indicative of diisodecyl phthalate exposure, was found in 89.9 percent of the U.S. population sampled in the NHANES survey.⁶

References

1. U.S. Department of Health and Human Services, National Toxicology Program, Center for the Evaluation of Risks to Human Reproduction (CERHR). NTP-CERHR Monograph on the Potential Human Reproductive and Developmental Effects of Di-isodecyl Phthalate (DIDP). 2003.
http://cerhr.niehs.nih.gov/evals/phthalates/didp/DIDP_Monograph_Final.pdf
2. California EPA, Office of Environmental Health Hazard Assessment. List of Chemicals Known to the State to Cause Cancer or Reproductive Toxicity. February 5, 2010.
http://www.oehha.org/prop65/prop65_list/files/P65single020510.pdf.
3. Danish Ministry of the Environment, Environmental Protection Agency. Survey of Chemical Substances in Consumer Products, Report 70. http://www.mst.dk/English/Chemicals/Consumer_Products/Surveys-on-chemicals-in-consumer-products.htm
4. Janssen P, van Veen M, van Apeldoorn M, Speijers G. Phthalates in teething rings/animal figures for infants. Advisory report 5293. Brussels: EU Committee Scientific on Toxicity Ecotoxicity and the Environment, CSTEE, 1997.
5. Rastogi SC. (1998). Gas chromatographic analysis of phthalate esters in plastic toys. *Chromatographia* 47: 724-726.
6. Calafat, AM, Wong, L-Y, Silva, MJ, Samandar, E, Preau, JL, Jia, LT, and Needham, LL. (2011). Selecting adequate exposure biomarkers of diisononyl and diisodecyl phthalates: data from the 2005-2006 National Health and Nutrition Examination Survey. *Environ Health Perspect* 119: 50-55.