

TEDX List of Potential Endocrine Disruptors

di(2-ethylhexyl)phthalate

CAS # 117-81-7

Alternative Names

DEHP
bis(2-ethylhexyl)phthalate
phthalic acid di-(2-ethyl-hexyl) ester
di-sec-octyl phthalate

Categories*

Household product ingredient
Industrial additive
Medical/Veterinary/Research
Personal care product/Cosmetic ingredient
Pesticide ingredient
Plastic/Rubber
Unconventional Oil and Gas

Evidence Supporting This Chemical as an Endocrine Disruptor

Gray LE Jr., Wolf C, Lambright C, Mann P, Price M, Cooper RL, Ostby J. 1999. Administration of potentially antiandrogenic pesticides (procymidone, linuron, iprodione, chlozolinate, p,p'-DDE, and ketoconazole) and toxic substances (dibutyl- and diethylhexyl phthalate, PCB 169, and ethane dimethane sulphonate) during sexual differentiation produces diverse profiles of reproductive malformations in the male rat. *Toxicol Ind Health* 15(1-2):94-118.

Ishihara A, Sawatsubashi S, Yamauchi K. 2003. Endocrine disrupting chemicals: interference of thyroid hormone binding to transthyretins and to thyroid hormone receptors. *Mol Cell Endocrinol* 199(1-2):105-117.

Lampen A, Zimnik S, Nau H. 2003. Teratogenic phthalate esters and metabolites activate the nuclear receptors PPARs and induce differentiation of F9 cells. *Toxicol Appl Pharmacol* 188(1):14-23.

Lu KY, Tseng FW, Wu CJ, Liu PS. 2004. Suppression by phthalates of the calcium signaling of human nicotinic acetylcholine receptors in human neuroblastoma SH-SY5Y cells. *Toxicology* 200(2-3):113-121.

Poon R, Lecavalier P, Mueller R, Valli VE, Procter BG, Chu I. 1997. Subchronic oral toxicity of di-n-octyl phthalate and di(2-ethylhexyl) phthalate in the rat. *Food & Chemical Toxicology* 35(2):225-239.

*Category References

Drollette BD, Hoelzer K, Warner NR, Darrah TH, Karatum O, O'Connor MP, Nelson RK, Fernandez LA, Reddy CM, Vengosh A, et al. 2015. Elevated levels of diesel range organic compounds in groundwater near Marcellus gas operations are derived from surface activities. *Proc Natl Acad Sci U S A* 112(43):13184-13189.

Maguire-Boyle SJ, Barron AR. 2014. Organic compounds in produced waters from shale gas wells. *Environ Sci Process Impacts* 16(10):2237-2248.

National Pesticide Information Retrieval System.

US Dept of Health & Human Services. Household Products Database.

US EPA. InertFinder.

US National Library of Medicine. Haz-Map.

US National Library of Medicine. Hazardous Substances Data Bank.

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