Chemical: Triphenyl Phosphate
CASRN: 115-86-6
Version: Draft, July 2012

Human Health Effects

PROPERTY/ENDPOINT		DATA	REFERENCE	DATA QUALITY
Neurotoxicity		**LOW: Based on an adult rat neurotoxicity screening battery NOAEL = 711 mg/kg-bw/day; all other experimental results are consistent with this hazard designation.**		
	Acute and 28-day Delayed Neurotoxicity of Organophosphorus Substances (Hen)	Two female hens/dose in delayed neurotoxicity test, gavage, 2,000, 3,000, 5,000, 8,000, or 12,500 mg/kg, no signs of toxicity in-life or at necropsy NOAEL ≥12,500 mg/kg (Measured)	OECD SIDS, 2002	Reported in a secondary source. No data on test substance purity.
		Several acute oral studies in hens, administered doses up to 12,500 mg/kg, generally found no signs of paralysis, histopathological changes in examined nerve tissues, or behavior immediately after or during observation periods of up to 36 days. However, blood cholinesterase was decreased by up to 87% in studies where it was measured. NOAEL = >12,500 mg/kg (Measured)	OECD SIDS, 2002	Reported in a secondary source. No data on test substance purity.
	Neurotoxicity Screening Battery (Adult)	4-month dietary study, 10 rats/dose, 0.25, 0.5, 0.75 or 1% test concentration (161, 345, 517 or 711 mg/kg-bw/day, respectively), no neurobehavioral effects (open field, accelerating rotarod, forelimb grip strength and negative geotaxis examinations) NOAEL = 711 mg/kg-bw-day (highest dose tested) (Measured)	ATSDR, 2009	Reported in a secondary source.

ATSDR (Agency for Toxic Substances and Disease Registry). Draft toxicological profile for phosphate ester flame retardants. U. S. Department of Health and Human Services, Public Health Service, **2009.**

OECD SIDS (Organisation for Economic Cooperation and Development Screening Information Dataset). 2002. SIDS Initial Assessment Report for Triphenyl Phosphate. http://www.chem.unep.ch/irptc/sids/OECDSIDS/115866.pdf