

Human Health and Environmental Fact Sheet

Disclaimer: The information presented in this fact sheet was compiled from information from flame retardants manufacturers and public data sources. The authors cannot be held liable for factual errors. For latest information on substance testing, classification and labelling as well as regulatory status please contact the individual manufacturers and refer to their latest safety data sheet applicable in your country or region.

Product name	Cresyl diphenyl phosphate	
Synonyms	Disflamoll® DPK	
CAS no.	26444-49-5	
Molecular Structure		
Mw	340,32 g/mole	
Mf	C ₁₉ H ₁₇ O ₄ P	
Physical form	liquid	
Use	Flame retardant for PC / ABS blends and PF resins	
PBT/vPvB EVALUATION		
	Conclusion	Comments
Persistent or very Persistent	Yes No X	
Bioaccumulative or very bioaccumulative	Yes No X	
Ecotoxicity	Yes No X	
HUMAN HEALTH		
	Result	Comments
Acute toxicity		
Acute toxicity (LD ₅₀)	>5000 mg/kg bw	Oral (rats)
Eye irritation	Yes No X	
Skin irritation	Yes No X	
Sensitization	Yes No X	
Chronic toxicity		
Carcinogenicity (NOAEL)	No carcinogenic potential	
Reprotoxicity (NOAEL)	No data	
Genotoxicity	Yes No X	Ames test
Endocrine disruption		

ENVIRONMENT		
Degradation		
Half life in water (fresh or marine)	19 days	t _{1/2} at 25°C and pH = 7
Half life in sediment (fresh or marine)		
Half life in soil		
Readily biodegradable	Yes X No	Test standard : ...OECD 301 B
Inherently biodegradable		
Sewage treatment removal		
Bioaccumulation		
BCF (log)	> 100	
Log K _{ow}	4,5	Experimental determined
Eco-toxicity		
Chronic toxicity for fish, NOEC		
Chronic toxicity for invertebrate, NOEC		
Chronic toxicity for algae, NOEC		
Physical properties		
Vapour pressure at 25 °C	< 0,01 hPa at 20 deg. C	
Solubility in water at 25 °C	2,6 mg/liter	
Soil Adsorption coefficient, K _{oc}		
Henry's law constant (atm·m ³ /mole)		
Hydrolysis (half life) in water		
RISK PHRASES		
	Applies following Directive EC/67/548	Comments
R40	Yes No X	
R42	Yes No X	
R43	Yes No X	
R45	Yes No X	
R49	Yes No X	
R50	Yes X No	R 50 / 53
R53	Yes X No	R 50 / 53

For more information please visit:
www.phosphorous-chemicals.com (LANXESS website)