

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	FR CROS 484	
Synonyms	FR CROS 484, FR CROS 486, FR CROS 489, FR CROS C60, FR CROS C 40, FR CROS C30, Budit 3167, Ammonium Polyphosphate Crystal form II	
CAS no.	68333-79-9	
Molecular Structure		
Mw		
Mf	(PO ₃ NH ₄) _n with n > 1.000	
Physical form	Solid (white powder)	
Use	Flame retardant for plastics and paints	
PBT/vPvB EVALUATION		
	Conclusion	Comments
Persistent or very Persistent	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	slow degradation of ammonium polyphosphate by hydrolysis to ammonium phosphate (plant nutrients)
Bioaccumulative or very bioaccumulative	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Ecotoxicity	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
HUMAN HEALTH		
	Result	Comments
Acute toxicity		
Acute toxicity (LD ₅₀)	>2000 mg/kg	Test standard: OECD 401
Eye irritation	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Test standard: OECD 405 (rabbit)
Skin irritation	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Test standard: OECD 404 (rabbit)
Sensitization / Potentially allergenic	Yes <input type="checkbox"/> No <input type="checkbox"/>	Test according to OECD 429 <input type="checkbox"/> or OECD 406 <input type="checkbox"/> .
Potentially mutagenic	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Test according to OECD 471
Chronic toxicity		
Carcinogenicity (NOAEL)	No data	Test standard:
Reprotoxicity (NOAEL)	No data	Test standard:
Genotoxicity	Yes <input type="checkbox"/> No <input type="checkbox"/>	Test standard:
Endocrine disruption	Yes <input type="checkbox"/> No <input type="checkbox"/>	Test standard:

ENVIRONMENT		
Degradation		
Half life in water (fresh or marine)	No data	Test standard:
Half life in sediment (fresh or marine)	No data	Test standard:
Half life in soil	No data	Test standard:
Readily biodegradable	Yes <input type="checkbox"/> No <input type="checkbox"/>	Test standard: OECD 301
Inherently biodegradable	Yes <input type="checkbox"/> No <input type="checkbox"/>	Test standard: OECD 301
Sewage treatment removal	No data	Test standard:
Bioaccumulation		
BCF (log)	No data	Test standard:
Log K _{ow}	No data	Test standard OECD 107
Eco-toxicity		
Chronic toxicity for fish, NOEC	> 500 mg/l (96h)	Test standard: OECD 203 (Species: Danio rerio)
Chronic toxicity for invertebrate, NOEC	No data	Test standard: OECD 202
Reprotox, invertebrate, NOEC	No data	Test standard: OECD 211
Chronic toxicity for algae, NOEC	No data	Test standard: EEC-Guideline 92/69 No. L383 C.3.
Physical properties		
Vapour pressure at 25 °C	not applicable	Test standard: OECD 104
Solubility in water at 25 °C	< 1g/l	almost insoluble max. 0,5% of ammonium phosphates will dissolved at 25°C in 10% suspension
Soil Adsorption coefficient, K _{oc}	No data	Test standard:
Henry's law constant (atm·m ³ /mole)	No data	Test standard:
Hydrolysis (half life) in water	No data	Test standard: OECD 111
RISK PHRASES		
		Comments
R1 – R67 (no risks known)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Even if there are no risks: Try to avoid contact with skin and eyes.

More information:

www.budenheim.com (Budenheim Website)