






CHLORFENVINPHOS**ICSC: 1305****Date of Peer
Review:
November
1998**O,O-Diethyl-O-(2-chloro-1-(2,4-dichlorophenyl)vinyl)phosphate
2-Chloro-1-(2,4-dichlorophenyl)vinyl diethyl phosphateCAS # 470-90-6 $C_{12}H_{14}Cl_3O_4P$
RTECS # TB8750000 Molecular mass: 359,6
UN # 3018
EC # 015-071-00-3

TYPES OF HAZARD / EXPOSURE	ACUTE HAZARDS / SYMPTOMS	PREVENTION	FIRST AID / FIRE FIGHTING
FIRE	Combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames.	Powder, alcohol-resistant foam, water spray, carbon dioxide.
EXPLOSION			
EXPOSURE		PREVENT GENERATION OF MISTS! STRICT HYGIENE! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!	IN ALL CASES CONSULT A DOCTOR!
Inhalation	Pupillary constriction, muscle cramp, excessive salivation. Sweating. Nausea. Dizziness. Laboured breathing. Headache. Convulsions. Unconsciousness. Symptoms may be delayed (see Notes).	Local exhaust or breathing protection.	Fresh air, rest. Artificial respiration may be needed. Refer for medical attention. See Notes.
Skin	MAY BE ABSORBED! (See Inhalation).	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
Eyes	Blurred vision.	Face shield or eye protection in combination with breathing protection.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to

			a doctor.
Ingestion	Abdominal cramps. Diarrhoea. Vomiting. Weakness. Convulsions. (See Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.
SPILLAGE DISPOSAL		PACKAGING & LABELLING	
Collect leaking liquid in sealable containers. Do NOT wash away into sewer. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. Chemical protection suit including self-contained breathing apparatus.		Do not transport with food and feedstuffs. Marine pollutant. EU Classification Symbol: T+, N R: 24-28-50/53 S: (1/2-)-28-36/37-45-60-61 UN Classification UN Hazard Class: 6.1 UN Pack Group: I	
EMERGENCY RESPONSE		SAFE STORAGE	
Transport Emergency Card: TEC (R)-61GT6-I		Separated from food and feedstuffs. Well closed. Stored in glass-lined or polyethylene-lined containers.	
    		Prepared in the context of cooperation between the International Programme on Chemical Safety and the Commission of the European Communities © IPCS, CEC 2004 SEE IMPORTANT INFORMATION ON BACK	

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IMPORTANT DATA

PHYSICAL STATE; APPEARANCE:
ORANGE TO BROWN LIQUID, WITH CHARACTERISTIC ODOUR.

CHEMICAL DANGERS:
The substance decomposes on heating and on burning producing toxic and corrosive fumes of hydrogen chloride, see - ICSC0163 and phosphorus oxides. Attacks tin, brass, iron and steel.

OCCUPATIONAL EXPOSURE LIMITS:
TLV not established.
MAK not established.

ROUTES OF EXPOSURE:

The substance can be absorbed into the body by inhalation and through the skin and by ingestion.

INHALATION RISK:

A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.

EFFECTS OF SHORT-TERM EXPOSURE:

The substance may cause effects on the the nervous system, resulting in convulsions and respiratory failure. Cholinesterase inhibitor. Exposure may result in unconsciousness and death. The effects may be delayed (see Notes). Medical observation is indicated.

	EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Cholinesterase inhibitor; cumulative effect is possible: see acute hazards/symptoms.
PHYSICAL PROPERTIES	
Boiling point at 0.07kPa: 167-170°C Melting point: -19 to -23°C Relative density (water = 1): 1.36 Solubility in water: none Vapour pressure, Pa at 20°C: <0.001 (0.53 mPa)	Octanol/water partition coefficient as log Pow: 3.82
ENVIRONMENTAL DATA	
The substance is very toxic to aquatic organisms. The substance may cause long-term effects in the aquatic environment. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.	
NOTES	
Depending on the degree of exposure, periodic medical examination is suggested. The symptoms of acute intoxication do not become manifest until 30 minutes to 6-12 hours. Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available. If the substance is formulated with solvent(s) also consult the card(s) (ICSC) of the solvent(s). Carrier solvents used in commercial formulations may change physical and toxicological properties. Do NOT take working clothes home. Birlane, Dermatol, Sapecron, Steladone, Supona are trade names. Card has been partly updated in April 2005. See section Emergency Response.	
ADDITIONAL INFORMATION	
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