

HEPTACHLOR

0743

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1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene

1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene

3,4,5,6,8,8a-Heptachlorodicyclopentadiene

C₁₀H₅Cl₇

Molecular mass: 373.3

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Not combustible. Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			
EXPOSURE		PREVENT DISPERSION OF DUST! AVOID ALL CONTACT!	
Inhalation	Convulsions. Tremor.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
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		Safety goggles 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	(See Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Give a slurry of activated charcoal in water to drink. Rest. Refer for medical attention.
SPILLAGE DISPOSAL		PACKAGING & LABELLING	
Do NOT let this chemical enter the environment. Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Chemical protection suit including self-contained breathing apparatus.		T Symbol N Symbol R: 24/25-33-40-50/53 S: (1/2-)36/37-45-60-61 UN Hazard Class: 6.1 UN Pack Group: II	
EMERGENCY RESPONSE		SAFE STORAGE	
Transport Emergency Card: TEC (R)-61GT7-II		Provision to contain effluent from fire extinguishing. Separated from strong oxidants, metals, food and feedstuffs. Well closed. Keep in a well-ventilated room. Dry.	
   			
Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission © IPCS 2005 SEE IMPORTANT INFORMATION ON THE BACK.			

IMPORTANT DATA

Physical State; Appearance

WHITE CRYSTALS OR TAN WAXY SOLID, WITH CHARACTERISTIC ODOUR.

Chemical dangers

The substance decomposes on heating above 160/C producing toxic fumes including hydrogen chloride. Reacts with strong oxidants. Attacks metal.

Occupational exposure limits

TLV: 0.05 mg/m³ as TWA; (skin); A3 (confirmed animal carcinogen with unknown relevance to humans); (ACGIH 2004). MAK: (Inhalable fraction) 0.5 mg/m³; skin absorption (H); Peak limitation category: II(2); Carcinogen category: 3B; (DFG 2004).

Routes of exposure

The substance can be absorbed into the body by inhalation of dusts from powder concentrates, through the skin and by ingestion.

Inhalation risk

Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.

Effects of short-term exposure

The substance may cause effects on the central nervous system.

Effects of long-term or repeated exposure

The substance may have effects on the liver. This substance is possibly carcinogenic to humans.

PHYSICAL PROPERTIES

Decomposes below boiling point at 160/C
Melting point: 95-96/C
Density: 1.6 g/cm³

Solubility in water: none
Vapour pressure, Pa at 25/C: 0.053
Octanol/water partition coefficient as log Pow: 5.27-5.44

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. Bioaccumulation of this chemical may occur along the food chain, for example in fish and in milk. 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

Other melting points: 46-74/C for the technical product.
Carrier solvents used in commercial formulations may change physical and toxicological properties.
Do NOT take working clothes home.
Depending on the degree of exposure, periodic medical examination is suggested.
Card has been partly updated in October 2005. See sections Occupational Exposure Limits, Emergency Response.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information