

International Chemical Safety Cards

1,4-DICHLOROBENZENE

ICSC: 0037

1,4-DICHLOROBENZENE
para-Dichlorobenzene
PDCB
 $C_6H_4Cl_2$
Molecular mass: 147

CAS # 106-46-7
RTECS # CZ4550000
ICSC # 0037
UN # 1592
EC # 602-035-00-2

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames. NO contact with strong oxidants.	Powder, water spray, foam, carbon dioxide.
EXPLOSION	Above 66 癩 explosive vapour/air mixtures may be formed.	Above 66 癩 use a closed system, ventilation, and explosion-proof electrical equipment.	In case of fire: keep drums, etc., cool by spraying with water.
EXPOSURE		PREVENT DISPERSION OF DUST! STRICT HYGIENE!	
INHALATION	Burning sensation. Cough. Drowsiness. Headache. Nausea. Shortness of breath. Vomiting.	Ventilation, local exhaust, or breathing protection.	Fresh air, rest. Refer for medical attention.
SKIN	Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
EYES	Pain.	Face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

INGESTION	Burning sensation. Convulsions. Diarrhoea (further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Give plenty of water to drink. Refer for medical attention.
	SPILLAGE DISPOSAL	STORAGE	PACKAGING & LABELLING
Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place (extra personal protection: P2 filter respirator for harmful particles).	Provision to contain effluent from fire extinguishing. Separated from strong oxidants, acids, food and feedstuffs. Keep in a well-ventilated room.	Do not transport with food and feedstuffs. Xn symbol R: 36/38 S: (2-)22-24/25-46 UN Hazard Class: 6.1 UN Packing Group: III Marine pollutant.	
SEE IMPORTANT INFORMATION ON BACK			
ICSC: 0037	Prepared in the context of cooperation between the International Programme on Chemical Safety & the Commission of the European Communities © IPCS CEC 1993		

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I M P O R T A N T D A T A	<p>PHYSICAL STATE; APPEARANCE: COLOURLESS TO WHITE CRYSTALS WITH A STRONG ODOUR.</p> <p>PHYSICAL DANGERS: The vapour is heavier than air.</p> <p>CHEMICAL DANGERS: On combustion, forms toxic and corrosive fumes including phosgene, hydrogen chloride. The substance decomposes on contact with acids or acid fumes producing highly toxic fumes. Reacts with strong oxidants.</p> <p>OCCUPATIONAL EXPOSURE LIMITS (OELs): TLV: 10 ppm; 60 mg/m³ (as TWA) (ACGIH 1991-1992). MAK: 50 ppm; 300 mg/m³; Pregnancy: C (1993).</p>	<p>ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation and by ingestion.</p> <p>INHALATION RISK: A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20 癩.</p> <p>EFFECTS OF SHORT-TERM EXPOSURE: The vapour irritates the eyes, the skin and the respiratory tract. The substance may cause effects on the blood and central nervous system, resulting in impaired functions and haemolytic anemia. Medical observation is indicated.</p> <p>EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The substance may have effects on the liver, kidneys and blood. This substance is possibly carcinogenic to humans.</p>
	PHYSICAL	Boiling point: 174 癩

PROPERTIES	<p>Melting point: 53 °C</p> <p>Relative density (water = 1): 1.2</p> <p>Solubility in water: none</p> <p>Vapour pressure, kPa at 55 °C: 1.33</p>	<p>Relative vapour density (air = 1): 5.08</p> <p>Relative density of the vapour/air-mixture at 20 °C (air = 1): 1.01</p> <p>Flash point: 66 °C c.c.</p> <p>Octanol/water partition coefficient as log Pow: 3.37</p>
ENVIRONMENTAL DATA	The substance is toxic to aquatic organisms.	
NOTES		
<p>Depending on the degree of exposure, periodic medical examination is indicated. Dichloricide, Paracid, Parazene, Paramoth, Paradow, and Santochlor are trade names.</p> <p style="text-align: right;">Transport Emergency Card: TEC (R)-61G12c NFPA Code: H 2; F 2; R 0;</p>		
ADDITIONAL INFORMATION		
ICSC: 0037		1,4-DICHLOROBENZENE
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