## PENTACHLOROETHANE

CAUTIONARY RESPONSE INFORMATION					4. FIRE HAZARDS	7. SHIPPING INFORMATION		
Common Synonyms         Liquid         Colorless           Ethane pentachloro- Pentalin         Sinks in water.         Sinks in water.			Colorless Sweet chlorofor like odor	n-	<ul> <li>4.1 Flash Point: None</li> <li>4.2 Flammable Limits in Air: Nonflammable.</li> <li>4.3 Fire Extinguishing Agents: Not pertinent</li> <li>4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent</li> <li>4.5 Special Hazards of Combustion</li> </ul>	<ul> <li>7.1 Grades of Purity: Technical; 96%</li> <li>7.2 Storage Temperature: Currently not available</li> <li>7.3 Inert Atmosphere: Currently not available</li> <li>7.4 Venting: Currently not available</li> <li>7.5 IMO Pollution Category: B</li> <li>7.6 Ship Type: 2</li> </ul>		
protective c Notify local	lve pressure breati clothing. health and pollutio	tning apparatus an	o special		Products: Contain irritating and toxic chloride vapors. 4.6 Behavior in Fire: Decomposes and	7.7 Barge Hull Type: 3		
Fire         Not flammable. POISONOUS GASES ARE PRODUCED IN FIRE OR WHEN HEATED TO DECOMPOSITION.					Control in the Decomposed and produces toxic gases.     Ar Auto Ignition Temperature: Not pertinent     B Electrical Hazards: Currently not available     A Burging Pate: Not pertinent	8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Poison 8.2 49 CFR Class: 6.1 8.3 49 CFR Package Group: II 8.4 Marina Pollutant: Yos		
Exposure	CALL FOR MEDICAL AID. VAPOR POISONOUS; MAY BE FATAL IF INHALED OR ABSORBED THROUGH SKIN. Initiating to eyes, skin, lungs and mucous membrane. Narcotic effect greater than chloroform. More potent central nervous system depressant than chloroform or tetrachloroethane. If breathing has stoped, give artificial respiration. If breathing is difficult, give oxygen. IF IN EYES OR ON SKIN, fush with running water for at least 15 minutes; hold eyelids open if necessary.				4.10 Adiabatic Flame Temperature: Not pertinent     4.11 Stoichometric Air to Fuel Ratio: Not pertinent.     4.12 Flame Temperature: Not pertinent     4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent.     4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed     5. CHEMICAL REACTIVITY	8.5 NFPA Hazard Classification: Category Classification Health Hazard (Blue)		
Weter	LIQUID POISONOUS IF SWALLOWED OR IF SKIN IS EXPOSED. Irritating to skin and eyes. IF IN EYES OR ON SKIN, flush with running water for at least 15 minutes; hold eyelide open if necessary. Speed in removing material from skin is of extreme importance. Remove and isolate contaminated clothing and shoes at the site. Effects may be delayed; keep victim under observation. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.				<ol> <li>5.1 Reactivity with Water: No reaction</li> <li>5.2 Reactivity with Common Materials: No reaction</li> <li>5.3 Stability During Transport: Stable</li> <li>5.4 Neutralizing Agents for Acids and Caustics: Not pertinent</li> <li>5.5 Polymerization: Not pertinent</li> <li>5.6 Inhibitor of Polymerization: Not pertinent</li> </ol>	9. PHYSICAL & CHEMICAL PROPERTIES      9.1 Physical State at 15° C and 1 atm: Liquid     9.2 Molecular Weight: 202.30     9.3 Boiling Point at 1 atm: 321°F = 160.5°C =         434°K      9.4 Freezing Point: -7.6°F = -22°C = 251.2°K      9.5 Critical Temperature: 734.0°F = 390°C = 62 30°C		
Pollution	May be dangerous if it enters water intakes. On Notify local health and wildlife officials.				6. WATER POLLUTION 6.1 Aquatic Toxicity:	9.6 Critical Pressure: 529 psia = 36 atm = 3.6 MN/m <sup>2</sup>		
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Collection Systems: Pump; Dredge       2. CHEMICAL DESIGNATIONS         2.1 CG Compatibility Group: 36; Halogenated hydrocarbons       3. CLCHCHCb         2.1 MOUN Designation: 6.1/1669       2.3 IMO/UN Designation: 6.1/1669         2.2 Formula: CCHCHCb       2.3 IMO/UN Designation: 6.1/1669         2.4 DOT ID No.: 1669       2.5 CAS Registry No.: 76-01-7         2.6 KAREG Guide No.: 151       2.7 Standard Industrial Trade Classification: 51134         3. HEALTH HAZARDS         3.1 Personal Protective Equipment: Wear positive pressure breathing apparatus and special protective			d ::	water. 6.2 Waterfowl Toxicity: TLm 96: under 1 ppm (species not identified) 6.3 Biological Oxygen Demand (BOD): Currently not available 6.4 Food Chain Concentration Potential: Currently not available 6.5 GESAMP Hazard Profile: Bioaccumulation: 2 Damage to living resources: 3 Human Oral hazard: 2 Human Contact hazard: 0 Reduction of amenities: X	<ul> <li>9.8 Liquid Surface Tenzion: 34.55 dynes/cm = 0.0346 N/m at 20°C</li> <li>9.9 Liquid Water Interfacial Tension: Currently not available</li> <li>9.10 Vapor (Gas) Specific Gravity: 7.0 (est)</li> <li>9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available</li> <li>9.12 Latent Heat of Vaporization: 78.5 Btu/lb = 43.6 cal/g = 1.83x10<sup>5</sup> J/kg.</li> <li>9.13 Heat of Combustion: Not pertinent</li> <li>9.14 Heat of Solution: Not pertinent</li> <li>9.15 Heat of Solution: Not pertinent</li> <li>9.16 Heat of Polymerization: Not pertinent</li> </ul>			
overclothing 3.2 Symptoms Foll central nerv 3.3 Treatment of E respiration. convulsions minutes: ho contaminate extreme imp 3.4 TLV-TWA: Not I 3.5 TLV-STEL: Not 3.7 Toxicity by Ings 3.8 Toxicity by Ings 3.9 Chronic Toxicit changes in degeneratio 3.10 Vapor (Gas) Irr irritation. 3.11 Liquid or Solid 3.12 Odor Threshol 3.13 IDLH Value: No 3.14 OSHA PEL-TW 3.15 OSHA PEL-STI 3.16 OSHA PEL-Cei 3.17 EPA AEGL: No	3. owing Exposure: rous system; and It xposure: INHALA If breathing is diffi- dievelids open if r ad clothing and sho portance. Effects n listed. listed. stieted. routher is a state of the state the liver, lungs, an on content liver and i ni of the liver and i ni of the liver and i ni of the liver and i ni that Characteristics: Id: Currently not av t listed. Ac: Not listed. EL: Not listed. Imission of the state listed. Ac: Not listed. Imission of the state listed. Imission of the state listed.	: Irritation of skin, i toxicity similar to tr ATION: Remove to Ticult, give oxygen. pt keep victim warn eccessary. SKIN: oes at the site. Sp may be delayed; kr LD: = 500 g/kg (d not available. 21 ppm 8 to 9 hourn d kidneys of cats. injury to the kidneys sites: Causes muc : Currently not ava vvailable	lungs, eyes, and mucous membrane; depression etrachloroethanes. clean air. If breathing has stopped, give artificial INGESTION: If victim is unconscious or having m. EYES: Flush with plenty of water for at least 1 Wash with soap and water. Remove and isolate eed in removing material from the skin is of eep victim under observation. (og) s daily for 23 days caused significant pathologics Exposure to vapor for 3 weeks caused fatty //s and lungs of cats. ous membrane, skin, lung, and cornea (eye) liable	sf I	NOTI	9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available 55		

## PENTACHLOROETHANE

9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
77	104.400		C U R R E N T L Y N O T A V A I L A B L E		C U R R E N T L Y N O T A V A I L A B L E	68	2.450

9. SOLUBILIT	24 Y IN WATER	9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
	I N S O L U B L E	50 75 100 125 150 175 200 225 250 275 300	0.031 0.107 0.255 0.501 0.869 1.384 2.958 4.067 5.424 7.056	300 320 340 360 380 400	0.00381 0.00883 0.01944 0.04092 0.08273 0.16132		CURRENTLY NOT AVA-LABLE