## **HEXACHLOROCYCLOPENTADIENE**

(		IARY RESP	ONSE INFORMA	TION			
Common Synonyms Perchlorocyclopentadiene		Liquid Sinks in water.	Greenish yellow	Harsh, unpleasant odor			
KEEP PEO Wear gogg Notify local Protect wat	PLE AWAY. A es, self-conta health and po er intakes.	AVOID CONTACT I ined breathing appr llution control agen	WITH LIQUID AND VAPOR. aratus, and rubber overcloth cies.	ing (including gloves).			
Fire	Not flammable. Poisonous gases may be produced when heated.						
Exposure	CALL FOR MEDICAL AID. VAPOR POISONOUS IF INHALED. If inhealed will cause coughing or difficult breathing. If in eyes, hold eyelids open and flush with plenty of water. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. LIQUID Will burn skin and eyes. If swallowed will cause nausea and vomiting. Remove contaminated clothing and shoes. IF IN EYES, hold eyelids open and flush with plenty of water. IF IN EYES, hold eyelids open and flush with glenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting. E SWALLOWED and victim is LINCONSCIOLIS OR HAVING CONVIL SIONS						
Water Pollution	Dangerous to aquatic life in high concentrations. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.						
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Collection Systems: Pump			2. CHEMICAL 2.1 CG Compatibilit 2.2 Formula: CsCle 2.3 IMO/UN Designa 2.4 DOT ID No: 264 2.5 CAS Registry Nr. 2.6 NAERG Guide N 2.7 Standard Indust 51139	2. CHEMICAL DESIGNATIONS     2.1 CG Compatibility Group: Not listed.     2.2 Formula: CcCls     3.1 IMO/UN Designation: Not listed     4. DOT ID No.: 2646     2.5 CAS Registry No.: 77-47-4     2.6 NAERG Guide No.: 151     2.7 Standard Industrial Trade Classification:     51139			
<ol> <li>Personal Prote boots; self-</li> <li>Symptoms Foll lachrymatio vornting, di irritating to</li> <li>Treatment of E oxygen as i laxative. E SKIN: was</li> <li>TLV-TWA: 0.01</li> <li>TLV-TFL: Not</li> <li>TLV-Ceiling: Not</li> <li>TAxicity by Ing:</li> <li>Toxicity by Ing:</li> <li>Shonic Toxici</li> <li>U vapor (Gas) In</li> <li>TLI Liquid or Solici</li> <li>SI2 Odor Threshol</li> </ol>	ctive Equipm contained brea owing Expose arrhea, depres the skin, caus arrhea, depres the skin, caus yrposure: INH- needed. INGE YES: flush win h with soap ar ppm listed. Stion: Grade alation: Curre ty: Currently n itant Characti C Characterist	s. mEALTM ent: Protective clc tiling apparatus; fr ure: Inhalation of n d salivation; pulm d salivation; pulm glistering and b LATION: remove STION; give large XLATION: remove STION; give large d water until no od 4; oral LDso = 0.5 thty not available eristics: Currently fics: Currently not a: Currently not as the set of the	INACAKUS sthing, including rubber glove ace shield mist is highly irritating to muc onary edema may occur. In ne yes causes severe irritat urring. victim to fresh air; give arti amounts of water and induc 15 min, if irritation remains or remains. 05 mg/kg (mouse), 113 mg/k not available available	es and rubber shoes or cous membranes, causing gestion causes nausea, ion. Liquid is extremely ficial respiration and/or e vomiting; give saline s, get medical attention.			

	4. FIRE HAZARDS	7. SHIPPING INFORMATION			
	4.1 Flash Point: Not flammable	7.1 Grades of Purity: Commercial, 97+%; Synthesis grade			
	4.2 Flammable Limits in Air: Not flammable 4.3 Fire Extinguishing Agents: Not pertinent	7.2 Storage Temperature: Ambient 7.3 Inert Atmosphere: No requirement			
	4.4 Fire Extinguishing Agents Not to Be Used: If water is used on adjacent fires,	7.4 Venting: Open			
	do not allow water to enter drums or storage tanks.	<ul><li>7.5 IMO Pollution Category: Currently not available</li><li>7.6 Ship Type: Currently not available</li></ul>			
	4.5 Special Hazards of Combustion Products: Toxic hydrogen chloride,	7.7 Barge Hull Type: Currently not available			
	in fires.	8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Poison			
	4.7 Auto Ignition Temperature: Not pertinent	8.2 49 CFR Class: 6.1 8.3 49 CFP Package Group: Not listed I			
	4.9 Burning Rate: Not pertinent	8.4 Marine Pollutant: No			
	<ul> <li>And Addabatic Frame Temperature: Currently not available</li> <li>Add Databatic Frame Temperature: Currently</li> </ul>	<ul><li>8.5 NFPA Hazard Classification: Not listed</li><li>8.6 EPA Reportable Quantity: 10 pounds</li></ul>			
	4.11 Stolenometric Air to Fuer Ratio. Not pertinent 4.12 Flame Temperature: Currently not	8.7 EPA Pollution Category: A 8.8 RCRA Waste Number: U130			
	available 4.13 Combustion Molar Ratio (Reactant to	8.9 EPA FWPCA List: Yes			
	Product): Not pertinent 4.14 Minimum Oxygen Concentration for	9. PHYSICAL & CHEMICAL PROPERTIES			
	Combustion (MOCC): Not listed	9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: 272.7			
	5. CHEMICAL REACTIVITY	<b>9.3 Boiling Point at 1 atm</b> : 462°F = 239°C = 512°K			
	5.1 Reactivity with Water: Reacts slowly to form hydrochloric acid. The reaction is not hazardous.	<ul> <li>9.4 Freezing Point: 50°F = 10°C = 283°K</li> <li>9.5 Critical Temperature: Not pertinent</li> </ul>			
	5.2 Reactivity with Common Materials: In presence of moisture, will corrode iron	9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 1.71 at 20°C (liquid)			
	and other metals. Flammable and explosive hydrogen gas may collect in	9.8 Liquid Surface Tension: 37.5 dynes/cm = 0.0375 N/m at 20°C			
•	enclosed space. 5.3 Stability During Transport: Stable	9.9 Liquid Water Interfacial Tension: Currently not available			
	5.4 Neutralizing Agents for Acids and Caustics: Rinse with dilute solution of sodium bicarbonate or soda ash	9.10 Vapor (Gas) Specific Gravity: 9.42 9.11 Ratio of Specific Heats of Vapor (Gas):			
	5.5 Polymerization: Not pertinent	Currently not available 9.12 Latent Heat of Vaporization: (est.) 76			
		Btu/lb = 42 cal/g = 1.8 X 10 <sup>5</sup> J/kg 9.13 Heat of Combustion: Currently not available			
	6. WATER POLLUTION 6.1 Aquatic Toxicity:	9.14 Heat of Decomposition: Not pertinent			
	Highly toxic 6.2 Waterfowl Toxicity: Highly toxic	9.16 Heat of Polymerization: Not pertinent			
	6.3 Biological Oxygen Demand (BOD): Currently not available	9.18 Limiting Value: Currently not available			
	6.4 Food Chain Concentration Potential: Possible accumulation of breakdown products	9.19 Reid Vapor Pressure: Currently not available			
	6.5 GESAMP Hazard Profile: Not listed	5			
	NOTE:	-			

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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
50 52 54 56 58 60 62 64 68 70 72 74 76	107.700 107.599 107.500 107.400 107.299 107.200 107.000 106.799 106.799 106.599 106.599		NOT PERTIZENT		NOT PERT-NUNT	70 72 74 76 80 82 84 86 88 90 92 94 96 98 90 100 102 104	8.933 8.579 8.240 7.918 7.610 7.317 7.037 6.769 6.514 6.270 6.036 5.813 5.600 5.396 5.201 4.836 4.664

9.24 SOLUBILITY 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	220 230 240 250 260 270 280 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460	0.180 0.230 0.291 0.366 0.458 0.568 0.702 1.052 1.278 1.545 1.859 2.226 2.654 3.151 3.725 4.386 5.144 6.011 7.000 8.122 9.394 10.830 12.440 14.260	220 230 240 250 260 270 280 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460	0.00674 0.00847 0.01057 0.01311 0.01615 0.01979 0.02920 0.03519 0.04220 0.05981 0.05981 0.07073 0.08328 0.09765 0.11400 0.13270 0.13280 0.23450 0.23450 0.23450 0.23450 0.30580 0.34750 0.39380		N O T P E R T I N E Z T