## MONOCHLOROTETRAFLUOROETHANE

CAUTIONARY RESPONSE INFORMATION			4.	FIRE HAZARDS	7. SHIPPING INFORMATION		
Common Synonyms Chiorotetrafluoroethane 1-Chioro-1,1,2,2- tetrafluoroethane F-124 Halon 241 R-124 Keep people away. Avoid contact with vapor Stay upwind; keep out of low areas.		Colorless or liquid.	<ul> <li>4.1 Flash Point: Not flammable</li> <li>4.2 Flammable Limits in Air: Not flammable</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 Products: Not pertinent</li> <li>4.6 Behavior in Fire: Not pertinent</li> <li>4.7 Auto Ignition Temperature: Not</li> </ul>		7.1 Grades of Purity: Currently not available 7.2 Storage Temperature: Currently not available 7.3 Inert Atmosphere: Currently not available 7.4 Venting: Currently not available 7.5 IMO Pollution Category: Currently not available 7.6 Ship Type: Currently not available 7.7 Barge Hull Type: Currently not available 8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Nonflammable Gas 8.2 49 CFR Class: 2.2 8.3 49 CFR Package Group: Not pertinent. 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Category Classification Health Hazard (Blue) 0 Flammability (Yellow) 0 8.6 EPA Reportable Quantity: Not listed. 8.7 CFA Package Sorup: Not listed. 8.8 RCRA Waste Number: Not listed		
	Container may explode in heat of tire. Fire may produce initiating or toxic gases. Move container from fire area if you can do it without risk. Stay away from ends of tanks. Cool containers that are exposed to flames with water from the side until well after fire is out. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire.			Hazards: Not pertinent Hazards: Not pertinent tate: Not pertinent Flame Temperature: Not etric Air to Fuel Ratio: Not mperature: Not pertinent ion Molar Ratio (Reactant to Not pertinent. Oxygen Concentration for tion (MOCC): Not listed			
Water Pollution	If not breathing, give artificial re: If breathing is difficult, give oxyg LIQUID Contact with liquid may cause fr Remove contaminated clothing a Flush affected areas with lukewa DO NOT USE HOT WATER Not pertinent	en. pstbite. nd shoes.	5.2 Reactivity reaction 5.3 Stability D 5.4 Neutralizit Caustics 5.5 Polymeriz 5.6 Inhibitor o 6. W 6.1 Aquatic To		<ul> <li>8.9 EPA FWPCA List: Not listed</li> <li>9. PHYSICAL &amp; CHEMICAL PROPERTIES</li> <li>9.1 Physical State at 15° C and 1 atm: Gas</li> <li>9.2 Molecular Weight: 136.48</li> <li>9.3 Boiling Point at 1 atm: 13.6°F = -10.2°C = 263°K</li> <li>9.4 Freezing Point: -179°F = -117°C = 156°K</li> <li>9.5 Critical Temperature: Currently not available</li> <li>9.6 Critical Pressure: Currently not available</li> </ul>		
1. CORRECTIVE RESPONSE ACTIONS Stop discharge       2. CHEMICAL DESIGNATIONS         2.1 CG Compatibility Group: Not listed.       2.2 Formula: CHF_2CHCJF2         2.3 IMO/UN Designation: 2.2/1021       2.4 DOT ID No.: 1021         2.5 CAS Registry No.: 63398-10-3       2.6 NAERG Guide No.: 126         2.7 Standard Industrial Trade Classification: 51137			<ul> <li>6.2 Waterfowl available</li> <li>6.3 Biological Currently</li> <li>6.4 Food Chai Currently</li> </ul>	Currently not available 2 Waterfowl Toxicity: Currently not available 3 Biological Oxygen Demand (BOD): Currently not available 4 Food Chain Concentration Potential: Currently not available 5 GESAMP Hazard Profile: Not listed	<ul> <li>9.7 Specific Gravity: Currently not available</li> <li>9.8 Liquid Surface Tension: Currently not available</li> <li>9.9 Liquid Water Interfacial Tension: Currently not available</li> <li>9.10 Vapor (Gas) Specific Gravity: 4.71</li> <li>9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available</li> <li>9.12 Latent Heat of Vaporization: Currently not available</li> <li>9.13 Heat of Combustion: Currently not available</li> </ul>		
<ol> <li>HELTH HAZARDB</li> <li>Personal Protective Equipment: Approved respirator, chemical safety goggles, chemical resistant gioves, other protective clothing.</li> <li>Symptoms Following Exposure: Displaces air such that oxygen content may become too lwt of support life. Profologied exposure can cause narcotic effect or rapid suffocation. Contact with liquid may cause frostbile.</li> <li>Treatment of Exposure: Call a physician. IN-HALATION: Move victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. SKIN OR EYES: Remove contaminated clothing and shoes, flush affected area with lukewarm water. DO NOT USE HOT WATER.</li> <li>TU-V-W: Not listed.</li> <li>Toxicity by Inhalation: Currently not available.</li> <li>Toxicity by Inhalation: Currently not available.</li> <li>Ornoni Toxicity: Currently not available.</li> <li>Orador Toxicity: Currently not available.</li> <li>O day of Solid Characteristics: Minimum hazard. Contact with liquid may cause frostbite.</li> <li>120 day of Solid Characteristics: Minimum hazard. Contact with liquid may cause frostbite.</li> <li>131 OSHA PEL-TWA: Not listed.</li> <li>140 GSHA PEL-TWI: Not listed.</li> <li>150 SSHA PEL-TWI: Not listed.</li> <li>151 OSHA PEL-STEI: Not listed.</li> <li>161 OSHA PEL-STEI: Not listed.</li> <li>161 OSHA PEL-STEI: Not listed.</li> <li>171 PEPA AEGL: Not listed.</li> </ol>				NOTE	<ul> <li>9.14 Heat of Decomposition: Currently not available</li> <li>9.15 Heat of Solution: Currently not available</li> <li>9.16 Heat of Polymerization: Currently not available</li> <li>9.17 Heat of Fusion: Currently not available</li> <li>9.18 Limiting Value: Currently not available</li> <li>9.19 Reid Vapor Pressure: Currently not available</li> <li>9.19 Reid Vapor Pressure: Currently not available</li> <li>9.13 S</li> </ul>		

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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
	CURRENTLY NOT AVAILABLE		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		C U R R E N T L Y N O T A V A I L A B L E

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
	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		C U R R E N T L Y N O T A V A I L A B L E	0 25 50 75 100 125 150 275 200 225 250 275 300 325 350 325 350 375 400 425 450 475 550 525 550 575 600	0.146 0.150 0.155 0.159 0.163 0.168 0.172 0.176 0.185 0.189 0.193 0.193 0.202 0.206 0.210 0.219 0.228 0.232 0.228 0.232 0.236 0.249