CHLOROACETIC ACID

	CAUTIONARY RESPO	DNSE INFORMATION	4. FIRE HAZARDS	7. SHIPPING INFORMATION		
Common Synonyms Solid Chloracetic acid Monochloroacetic acid Mixes with water.		Cloudy white solid; Strong vinegar- liquid is colorless to like odor light yellow	 4.1 Flash Point: (almost nonflammable) 259°F C.C. 4.2 Flammable Limits in Air: 8% (LFL) 4.3 Fire Extinguishing Agents: Dry chemical, carbon dioxide, water 4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent 	 7.1 Grades of Purity: Commercial: 97.5+% 7.2 Storage Temperature: Solid: ambient; Liqu 70°C (158°F) 7.3 Inert Atmosphere: No requirement 7.4 Venting: Open (flame arrester) 7.5 IMO Pollution Category: D 		
Call fire de	ole away. Avoid contact with liquid. partment. I health and pollution control agenci	es.	4.5 Special Hazards of Combustion Products: Hydrogen chloride and phosgene may be generated.	7.6 Ship Type: 2 7.7 Barge Hull Type: Currently not available		
Fire	Combustible. POISONOUS GASES MAY BE F Flood discharge area with water		 4.6 Behavior in Fire: Not pertinent 4.7 Auto Ignition Temperature: Currently not available difficult to ignite 4.8 Electrical Hazards: Not pertinent 	8. HAZARD CLASSIFICATIONS 8.1 49 CFR Category: Poison 8.2 49 CFR Class: 6.1 8.3 49 CFR Class: 6.1 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Category Classification Health Hazard (Blue)		
Exposure	or milk. DO NOT INDUCE VOMITING.	of water. nd flush with plenty of water. XONSCIOUS, have victim drink water	 4.9 Elevrining Rate: Not permittin 4.9 Elevrining Rate: Not permittinent 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichometric Air to Fuel Ratio: 7.1 (calc.) 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): 4.0 (calc.) 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed 			
Water Pollution	Effect of low concentrations on a May be dangerous if it enters we Notify local health and wildlife of Notify operators of nearby water	iter intakes. ficials.	5. CHEMICAL REACTIVITY 5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials:			
 CORRECTIVE RESPONSE ACTIONS Dilute and disperse Stop discharge C C Compatibility Group: Not listed. C C Compatibility Group: Not listed. Formula: CICH-COOH MOUN Designation: Liquid: 8/1750; Solid: 8/1751 DOT ID No: 1751 (solid), 1750 (liquid) C C AS Registry No.: 79-11-8 NAERG Guide No:: 153 S AREG Guide No:: 153 Standard Industrial Trade Classification: 51377 Standard Industrial Trade Classification: 51377 Symptoms Following Exposure: Inhalation causes mucous membrane irritation. Contact with liquid causes severe irritation and burns of the eyes and irritation and burns of skin. Ingestion causes burns of mouth and stormach. Treatment of Exposure: Get medical attention for all exposures to this compound. INHALATION: remove victim to fresh air and enforce rest until medical attention is obtained. EYES: flush with running water for 15 min. SKIN: flush with water; get treatment for burns. INGESTION: give large amount of water. TV-TWA: Not listed. TV-Ceiling: Not listed. Toxicity by Inhalation: Currently not available. C Thronic Toxicity: Currently not available. Chronic Toxicity: Not listed. Mapor (Gas) Irritant Characteristics: Severe skin irritant. Causes second- and third-degree burns on short contact and is very injurious to the eyes. 20dor Threshold: 0.15 mg/m			Causes mild corrosion of common metals 5.3 Stability During Transport: Stable 5.4 Neutralizing Agents for Acids and Caustics: Flush with water, rinse with sodium bicarbonate or lime solution 5.5 Polymerization: Not perlinent 5.6 Inhibitor of Polymerization: Not perlinent 6. WATER POLLUTION 6.1 Aquatic Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): Currently not available 6.4 Food Chain Concentration Potential: None 6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 2 Human Contact hazard: 11 Reduction of amenities: XX	 9.1 Physical State at 15° C and 1 atm: Solid 9.2 Molecular Weight: 94.5 9.3 Boiling Point at 1 atm: 372°F = 189°C = 462°K 9.4 Freezing Point: 140°F = 60°C = 333°K 9.5 Critical Temperature: Not pertinent 9.6 Critical Pressure: Not pertinent 9.7 Specific Gravity: 1.58 at 20°C (solid) 9.8 Liquid Surface Tension: 33 dynes/cm = 0.033 N/m at 80°C 9.9 Liquid Water Interfacial Tension: Not pertinent 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.10 Vapor (Gas) Specific Gravity: Not pertinent 9.12 Latent Heat of Vaporization: 250 Btu/lb = 138 cal/g = .682 X 10⁵ J/kg 9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Polymerization: Not pertinent 9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: 31.06 cal/g 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available 		
3.17 EPA AEGL: N	iot listed					

CHLOROACETIC ACID

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
150 160 170 180 200 210 230 240 250 260 270 280 290 300 310 320 330 330 350	85.480 85.059 84.639 84.230 83.809 83.400 82.2980 82.259 82.150 81.730 81.320 80.900 80.480 80.900 80.480 80.900 79.550 79.230 78.820 78.820 78.400 77.570 77.150		N O T E R T I N E N T		N O T P E R T I N E N T		N O T P E R T I N E N T

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
39	72.000	150 160 170 180 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370	0.081 0.111 0.151 0.202 0.269 0.356 0.466 0.605 0.780 0.998 1.269 1.602 2.010 2.505 3.105 3.827 4.692 5.721 6.941 8.381 10.070 12.050 14.360	150 160 170 180 200 210 230 240 250 260 270 280 290 300 310 320 330 310 320 330 310 320 330 310 320 330	0.00117 0.00158 0.00210 0.00278 0.00365 0.00475 0.00966 0.01256 0.01574 0.01960 0.02424 0.02982 0.03647 0.04435 0.05366 0.06459 0.07738 0.09226 0.10950 0.12940 0.15230		N O T E R T I N E N T