PERCHLOROMETHYL MERCAPTAN

SHIPPING INFORMATION
 Grades of Purity: Technical: 97+%
 Storage Temperature: Ambient

7.5 IMO Pollution Category: Currently not available7.6 Ship Type: Currently not available

7.7 Barge Hull Type: Currently not available
8. HAZARD CLASSIFICATIONS

8.5 NFPA Hazard Classification: Not listed

9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Liquid

9.2 Molecular Weight: 185.9
9.3 Boiling Point at 1 atm: 300°F = 148°C = 421°K

8.6 EPA Reportable Quantity: Not listed.8.7 EPA Pollution Category: Not listed.

8.8 RCRA Waste Number: Not listed

8.9 EPA FWPCA List: Not listed

9.4 Freezing Point: Not pertinent

9.5 Critical Temperature: Not pertinent

9.9 Liquid Water Interfacial Tension: Not

9.10 Vapor (Gas) Specific Gravity: Not pertinent

9.11 Ratio of Specific Heats of Vapor (Gas):

9.12 Latent Heat of Vaporization: (est.) 94 Btu/lb = 52 cal/g = $2.2 \times 10^5 \text{ J/kg}$

9.14 Heat of Decomposition: Not pertinent 9.15 Heat of Solution: Not pertinent

9.16 Heat of Polymerization: Not pertinent 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available

9.19 Reid Vapor Pressure: Currently not available

9.13 Heat of Combustion: Not pertinent

9.6 Critical Pressure: Not pertinent
9.7 Specific Gravity: 1.706 at 11°C (liquid)
9.8 Liquid Surface Tension: 35.02 dynes/cm = 0.03502 N/m at 20°C

ertinent

Not pertinent

NOTES

7.3 Inert Atmosphere: No requirement

7.4 Venting: Pressure-vacuum

8.1 49 CFR Category: Poison
8.2 49 CFR Class: 6.1
8.3 49 CFR Package Group: I
8.4 Marine Pollutant: Yes

	CAUTION	NARY RESPO	ONSE INFORMATION	4. FIRE HAZARDS
Common Synonyms Thiocarbonyl tetrachloride Trichlorremtyl sulfur chloride Trichlorromethanesulfenyl chloride Trichloromethane sulfuryl chloride		Liquid Sinks in water. Po	Yellow to orange-red Strong unpleasant odor	 4.1 Flash Point: Not flammable 4.2 Flammable Limits in Air: Not flammable 4.3 Fire Extinguishing Agents: Not pertinent 4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent 4.5 Special Hazards of Combustion Products: Very irritating vapors forme
Wear gog overclothi Evacuate Stay upwi Notify loca	gles, self-conta ng (including gla area in case o nd. Use water	ined breathing appar	/n" vapor.	 from hot material. May form toxic phosgene gas, hydrogen chloride, and sulfur dioxide. 4.6 Behavior in Fire: At elevated temperatures will decompose to carbo tetrachoride, sulfur chloride, and heav oily polymers. 4.7 Auto Ignition Temperature: Not pertin
Fire	Not flammal POISONOU	ble. IS GASES MAY BE F	 4.8 Electrical Hazards: Not pertinent 4.9 Burning Rate: Not pertinent 4.10 Adiabatic Flame Temperature: Current 	
Exposure	VAPOR POISONOU Irritating to Move victim If breathing	MEDICAL AID. IS IF INHALED. eyes, nose and throa to fresh air. has stopped, give ar is difficult, give oxyg	A 11 Stoichometric Air to Fuel Ratio: Not pertinent. A12 Flame Temperature: Currently not available A13 Combustion Molar Ratio (Reactant to Product): Not pertinent. A14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	
	POISONOU Irritating to Remove co Flush affect IF IN EYES IF SWALLC or milk and IF SWALLC	IS IF SWALLOWED eyes. ntaminated clothing a red areas with plenty , hold eyelids open a WED and victim is C have victim induce vi WED and victim is L do nothing except ki	 5. CHEMICAL REACTIVITY 5.1 Reactivity with Water: Reacts only whe hot to give carbon dioxide, hydrochlori acid, and sulfur. 5.2 Reactivity with Common Materials: Reacts with iron or steel, evolving carbon tetrachloride. Corrosive to mo metals. 	
Water Pollution	May be dan Notify local	w concentrations on a igerous if it enters wa health and wildlife of ators of nearby water	ficials.	S.3 Stability During Transport: Stable S.4 Neutralizing Agents for Acids and Caustics: Flood with water, rinse with dilute sodium bicarbonate or lime solution. S.5 Polymerization: Not pertinent
3.2 Symptoms Fo brief expo liver, and immediate damage m in quantitii membrane throat, nau central ne 3.3 Treatment of INHALATI' flush with water. IN a.5 TLV-STEL: NC a.6 TLV-Ceiling: 3.7 Toxicity by In 3.8 Toxicity by In 3.9 Chronic Toxic 3.10 Vapor (Gas) I	: goggles or fac llowing Expose sure to low con neart congestic eye irritation a sure to low con eye irritation a surficient to so fithe mouth, sea, vomiting, so sof the mouth, sea, vomiting, water for 15 mi GESTION: give or olive oil to ppm t listed. lot listed. gestion: Grade alation: Curre ity: Currently n rritant Charac	e shield; rubber glov sure: Inhalation may icentrations may pro- on. Severe exposure and severe conjuncti- iid also causes seve- produce systemic po- throat, and gastroin cramps and diarrhez lepression may resul t medical attention at tim to fresh air; give n; if physician is not l arge amounts of w soothe stomach.	id-type canister mask or self-contained breathing es. cause severe irritation of upper respiratory tract; duce central nervous system depression and lung, is may be fatal. Contact of liquid with eyes causes ritis; if not promptly washed away, severe corneal re local skin irritation; may be absorbed through skin isoning. Ingestion may cause damage to the testinal tract. Pain and burning of the mouth and may occur. In severe cases, tissue ulceration and t. once following all exposures to this compound. mouth-to-mouth resuscitation if needed. EYES: available, flush for another 15 min. SKIN: flush with ater, then induce vomiting until vomitus is clear; give	 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: - Human Oral hazard: 2 Human Contact hazard: 11 Reduction of amenities: X

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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
28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78	107.400 107.200 107.099 107.000 106.799 106.700 106.599 106.400 106.299 106.200 106.009 105.900 105.799 105.700 105.599 105.500 105.500 105.200 105.299 105.200 105.299 105.000 104.900 104.700	60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85	0.300 0.300	51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	1.048 1.048		NOT PERTINENT

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 R E A C T S S L O W L		N OT P E R T I N E N T		N OT P E R T I N E N T		NOT PERTINENT