## **M-DICHLOROBENZENE**

## CAUTIONARY RESPONSE INFORMATION 4. FIRE HAZARDS 7. SHIPPING INFORMATION 4.1 Flash Point: (est.) 165°F O.C. 151°F C.C. 7.1 Grades of Purity: Currently not available Common Synonyms Liauid Colorless 7.2 Storage Temperature: Currently not available 1,3-Dichlorobenzene meta-Dichlorobenzene 4.2 Flammable Limits in Air: (est.) 2.02% -7.3 Inert Atmosphere: Currently not available 9.2% Sinks in water 7.4 Venting: Currently not available 4.3 Fire Extinguishing Agents: Water, foam, carbon dioxide or dry or dry chemical. 7.5 IMO Pollution Category: B Keep people away. Avoid contact with liquid. Wear goggles and self-contained breathing apparatus. Shut off ignition sources and call fire department. 4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent 7.6 Ship Type: 2 7.7 Barge Hull Type: 3 Special Hazards of Combustion Products: Irritating vapors including hydrogen chloride are produced. Notify local health and pollution control agencies. Protect water intakes 8. HAZARD CLASSIFICATIONS Combustible 4.6 Behavior in Fire: Not pertinent 8.1 49 CFR Category: Not listed Fire POISONOUS GASES ARE PRODUCED IN FIRE 8.2 49 CFR Class: Not pertinent 4.7 Auto Ignition Temperature: (est.) 1198°E. Wear goggles and self-contained breathing apparatus. Extinguish with water, dry chemical, foarn, or carbon dioxide. Cool exposed containers with water. 8.3 49 CFR Package Group: Not listed. 4.8 Electrical Hazards: None 8.4 Marine Pollutant: Yes 4.9 Burning Rate: Currently not available 8.5 NFPA Hazard Classification: Not listed CALL FOR MEDICAL AID. 4.10 Adiabatic Flame Temperature: Currently Exposure 8.6 EPA Reportable Quantity: 100 pounds not available 8.7 EPA Pollution Category: B 4.11 Stoichometric Air to Fuel Ratio: 30.9 Irritating to skin and eyes 8.8 RCRA Waste Number: U071 (calc.) Harmful if swallowed. 4.12 Flame Temperature: Currently not available 8.9 EPA FWPCA List: Yes Remove contaminated clothing and shoes. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, de authors are to be optimized and and the second 4.13 Combustion Molar Ratio (Reactant to Product): 9.0 (calc.) 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Physical State at 15° C and 1 atm: Liquid 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed 9.2 Molecular Weight: 147.01. do nothing except keep victim w **9.3 Boiling Point at 1 atm:** 343.4°F = 173°C = 446.15°K 5. CHEMICAL REACTIVITY HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. Water **9.4 Freezing Point:** −12.5°F = 24.7°C = 248.45°K. May be dangerous if it enters water intakes 5.1 Reactivity with Water: No reaction Pollution Notify local health and pollution control officials Notify operators of nearby water intakes. 5.2 Reactivity with Common Materials: No 9.5 Critical Temperature: (est.) 771.44°F = 410.8°C = 683.95°K. reaction 5.3 Stability During Transport: Stable 9.6 Critical Pressure: 562.9 psia = 38.3 atm = 3.88 NM/m<sup>2</sup> 5.4 Neutralizing Agents for Acids and Caustics: Not pertinent 9.7 Specific Gravity: 1.2884 at 20°C. 1. CORRECTIVE RESPONSE ACTIONS 2. CHEMICAL DESIGNATIONS 5.5 Polymerization: Not pertinent Stop discharge Contain Collection Systems: Pump; Dredge 9.8 Liquid Surface Tension: 36.01 dynes/cm = 0.03601 N/m at 20°C. 2.1 CG Compatibility Group: 36; Halogenated 5.6 Inhibitor of Polymerization: Not pertinent hvdrocarbon. hydrocarbon. Formula: CeH4Ck IMO/UN Designation: 6.1/1591 DOT ID No.: Not listed CAS Registry No.: 25321-22-6 NAERG Guide No.: 152 22 9.9 Liquid Water Interfacial Tension: Currently Do not burn 2.2 2.3 2.4 2.5 2.6 6. WATER POLLUTION not available 9.10 Vapor (Gas) Specific Gravity: 5.07. 6.1 Aquatic Toxicity: 10 ppm/48-hour/Zebrafish/LC50. 9.11 Ratio of Specific Heats of Vapor (Gas): 2.7 Standard Industrial Trade Classification: 6.2 Waterfowl Toxicity: Currently not Currently not available **9.12 Latent Heat of Vaporization:** At boiling point. 113.02 Btu/lb = 62.79 cal/g = 2.63 X 10<sup>5</sup> 51139 available 6.3 Biological Oxygen Demand (BOD): 3. HEALTH HAZARDS Currently not available 3.1 Personal Protective Equipment: Goggles, rubber gloves and self-contained breathing apparatus. Food Chain Concentration Potential: Currently not available 9.13 Heat of Combustion: (net) -8096 Btu/lb = 4498 cal/g = -1.88 X 10<sup>7</sup> J/kg. 6.4 3.2 Symptoms Following Exposure: INHALATION: Causes headache, drousiness, unsteadiness. Irritating to mucous membranes. EYES: Severe irritation. SKIN: Severe irritation. INGESTION: Irritation of gastric mucosa, nausea, vomiting, diarrhea, abdominal cramps and cyanosis. 9.14 Heat of Decomposition: Currently not 6.5 GESAMP Hazard Profile Bioaccumulation: 7 available 3.3 Treatment of Exposure: Get medical aid. INHALATION: Remove from exposure. Keep guiet and Damage to living resources: 3 Human Oral hazard: 1 9.15 Heat of Solution: Not pertinent warm. EYES: Rinse with running water for 15 to 20 minutes. SKIN: Wash with soap and water. INGESTION: Wash mouth, give emetic. 9.16 Heat of Polymerization: Not pertinent Human Contact hazard: | 9.17 Heat of Fusion: 20.55 cal/g 3.4 TLV-TWA: Not listed. Reduction of amenities: X 3.5 TLV-STEL: Not listed. 9.18 Limiting Value: Currently not available 3.6 TLV-Ceiling: Not listed. 9.19 Reid Vapor Pressure: Currently not 3.7 Toxicity by Ingestion: Grade 2; LD50 = 500 to 5000 mg/kg. available 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: May cause some liver and kidney damage. NOTES 3.10 Vapor (Gas) Irritant Characteristics: Vapors cause moderate irritation such that personnel will find high concentrations unpleasant. The effect is temporary. 3.11 Liquid or Solid Characteristics: Minimum hazard, If spilled on clothing and allowed to remain, may cause smarting and reddening of skin. 3.12 Odor Threshold: .02 ppm in water. 3.13 IDLH Value: Not listed. 3.14 OSHA PEL-TWA: Not listed. 3.15 OSHA PEL-STEL: Not listed 3.16 OSHA PEL-Ceiling: Not listed 3.17 EPA AEGL: Not listed

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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
15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120	79.492 79.485 79.476 79.467 79.459 79.459 79.441 79.433 79.424 79.417 79.300 79.391 79.382 79.374 79.365 79.356 79.356 79.356 79.339 79.339 79.332 79.323 79.315		UJRRENTLY ZOT AVA-LABLE				CURRENTLY NOT AVAILABLE

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
	L N S O L U B L E	55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150	0.021 0.024 0.029 0.033 0.045 0.053 0.062 0.072 0.084 0.098 0.115 0.134 0.157 0.183 0.249 0.291 0.339 0.396	55 60 65 70 75 80 85 90 95 100 105 110 110 115 120 120 125 130 135 140 145 150	0.48431 0.55781 0.64247 0.73998 0.85228 0.98163 1.3061 1.30220 1.49983 1.72745 2.28158 2.63937 3.03994 3.50130 4.03269 4.64471 5.34963 6.16152 7.09664	625 650 675 700 725 750 775 800 825 825 850 875 900 926 950 950 950 950 950 1025 1000 1025 1050 1075 1100 1125 1150 1175 1200	0.305 0.311 0.317 0.322 0.328 0.328 0.339 0.344 0.356 0.356 0.367 0.377 0.378 0.389 0.389 0.395 0.400 0.400 0.401 0.411 0.417 0.422 0.428 0.434 0.439 0.445