

MERCURIC THIOCYANATE

MRT

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms	Powdered solid	White to tan	Odorless
Mercuric sulfocyanate Mercuric sulfocyanide Mercury rhodanide			
Sinks and mixes slowly with water. Keep people away. Avoid contact with solid and dust. Wear goggles, self-contained breathing apparatus, and rubber overclothing (including gloves). Notify local health and pollution control agencies.			
Fire	Not flammable. POISONOUS GASES ARE PRODUCED WHEN HEATED. Wear goggles and self-contained breathing apparatus. Extinguish with water, dry chemical, or carbon dioxide.		
Exposure	CALL FOR MEDICAL AID. DUST Irritating to skin, eyes, and nose. If inhaled, will cause coughing, pain, and difficult breathing. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. SOLID POISONOUS IF SWALLOWED. Irritating to skin and eyes. 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, do nothing except keep victim warm.		
Water Pollution	HARMFUL TO AQUATIC LIFE IN VERY LOW 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	2. CHEMICAL DESIGNATIONS	3. HEALTH HAZARDS	4. FIRE HAZARDS	5. CHEMICAL REACTIVITY	6. WATER POLLUTION	7. SHIPPING INFORMATION
Dilute and disperse Stop discharge	2.1 CG Compatibility Group: Not listed. 2.2 Formula: Hg(SCN) ₂ 2.3 IMO/UN Designation: 6.1/1646 2.4 DOT ID No.: 1646 2.5 CAS Registry No.: 592-85-8 2.6 NAERG Guide No.: 151 2.7 Standard Industrial Trade Classification: 52382	3.1 Personal Protective Equipment: Dust mask or self-contained breathing apparatus, when required; rubber gloves, safety or chemical goggles, disposable clothing, or rubber apron. 3.2 Symptoms Following Exposure: INHALATION: Acute poisoning symptoms are: Tightness in the chest, difficulty breathing, coughing, and pain in the chest. EYES: Ulceration of conjunctiva and cornea. SKIN: Irritation, sensitization dermatitis. INGESTION: Necrosis, pain, vomiting, severe purging. Patient may die within a few hours from peripheral vascular collapse. 3.3 Treatment of Exposure: Get medical attention. INHALATION: Remove from exposure. EYES: Flush with water. SKIN: Wash thoroughly with water. INGESTION: Give egg white, milk, or activated charcoal, then induce vomiting. Consult physician. 3.4 TLV-TWA: 0.025 mg/m ³ as Hg. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Currently not available 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Hg vapor caused kidney, heart, lung, and brain damage in rabbits. In man - psychic and emotional disturbances. Fine tremors may affect hands, head, lips, tongue, or jaw. Salivation, gingivitis, and digestive disturbances. 3.10 Vapor (Gas) Irritant Characteristics: Currently not available 3.11 Liquor or Solid Characteristics: Currently not available 3.12 Odor Threshold: Odorless 3.13IDLH Value: Not listed. 3.14 OSHA PEL-TWA: Not listed. 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: 0.1 mg/m ³ (as mercury) 3.17 EPA AEGL: Not listed	4.1 Flash Point: >250°F 4.2 Flammable Limits in Air: Not pertinent 4.3 Fire Extinguishing Agents: Water, dry chemical, CO ₂ 4.4 Fire Extinguishing Agents Not to Be Used: Currently not available 4.5 Special Hazards of Combustion Products: When heated, decomposes into mercury, nitrogen, etc., at about 165°C. 4.6 Behavior in Fire: When heated, swells up to many times its original volume. 4.7 Auto Ignition Temperature: Currently not available 4.8 Electrical Hazards: Currently not available 4.9 Burning Rate: Currently not available 4.10 Adiabatic Flame Temperature: Currently not available 4.11 Stoichiometric Air to Fuel Ratio: Not pertinent. 4.12 Flame Temperature: Currently not available 4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent. 4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	5.1 Reactivity with Water: No reaction 5.2 Reactivity with Common Materials: No reaction 5.3 Stability During Transport: Stable 5.4 Neutralizing Agents for Acids and Caustics: Currently not available 5.5 Polymerization: Will not occur. 5.6 Inhibitor of Polymerization: Not pertinent	6.1 Aquatic Toxicity: 0.004 to 0.02 mg/l Hg reported as harmful to freshwater fish 48-hour TL _m for marine fish is 0.29 mg/l LC ₅₀ in aerated salt water: Prawn -0.075 mg/l Shrimp -5.7 mg/l Oyster -4.2 mg/l Cockle -9 mg/l 6.2 Waterfowl Toxicity: Currently not available 6.3 Biological Oxygen Demand (BOD): Currently not available 6.4 Food Chain Concentration Potential: Many organisms can accumulate mercury from water. Bioconcentration up to 10,000 fold. 6.5 GESAMP Hazard Profile: Biaccumulation: + Damage to living resources: 4 Human Oral hazard: E Human Contact hazard: II Reduction of amenities: XX	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
						NOTES

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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
NOT PERTINENT	NOT PERTINENT	NOT PERTINENT	NOT PERTINENT	NOT PERTINENT	NOT PERTINENT	NOT PERTINENT	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
77	0.070		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE