

# MERCURIC SULFIDE

MSF

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms Artificial cinnabar Chinese red Ethiops mineral Mercuric sulfide, black Mercuric sulfide, red Vermilion	Solid Sinks in water.	Red or black	Odorless	<p><b>4.1 Flash Point:</b> Not pertinent (combustible solid)</p> <p><b>4.2 Flammable Limits in Air:</b> Not pertinent</p> <p><b>4.3 Fire Extinguishing Agents:</b> Water, foam, sand</p> <p><b>4.4 Fire Extinguishing Agents Not to Be Used:</b> Other agents may be ineffective.</p> <p><b>4.5 Special Hazards of Combustion Products:</b> Smoke from fire contains poisonous mercury vapor and irritating sulfur dioxide gas.</p> <p><b>4.6 Behavior in Fire:</b> Changes color when hot. Decomposes at burning temperature. The black form may soften, and molten sulfur may flow out and burn.</p> <p><b>4.7 Auto Ignition Temperature:</b> Currently not available</p> <p><b>4.8 Electrical Hazards:</b> Not pertinent</p> <p><b>4.9 Burning Rate:</b> Not pertinent</p> <p><b>4.10 Adiabatic Flame Temperature:</b> Currently not available</p> <p><b>4.11 Stoichiometric Air to Fuel Ratio:</b> 9.5 (calc.)</p> <p><b>4.12 Flame Temperature:</b> Currently not available</p> <p><b>4.13 Combustion Molar Ratio (Reactant to Product):</b> 2.0 (calc.)</p> <p><b>4.14 Minimum Oxygen Concentration for Combustion (MOCC):</b> Not listed</p>	<p><b>7.1 Grades of Purity:</b> The black form may contain up to 40% free sulfur.</p> <p><b>7.2 Storage Temperature:</b> Ambient</p> <p><b>7.3 Inert Atmosphere:</b> No requirement</p> <p><b>7.4 Venting:</b> Open</p> <p><b>7.5 IMO Pollution Category:</b> Currently not available</p> <p><b>7.6 Ship Type:</b> Currently not available</p> <p><b>7.7 Barge Hull Type:</b> Currently not available</p>
KEEP PEOPLE AWAY. AVOID CONTACT WITH SOLID AND DUST. Wear dust respirator and rubber overclothing (including gloves). Call fire department. Notify local health and pollution control agencies.					8. HAZARD CLASSIFICATIONS
Fire Combustible. POISONOUS GASES MAY BE PRODUCED IN FIRE. Wear goggles and self-contained breathing apparatus. Extinguish with water, foam, or sand. Other extinguishing agents may be ineffective on fire.					<p><b>8.1 49 CFR Category:</b> Poison</p> <p><b>8.2 49 CFR Class:</b> 6.1</p> <p><b>8.3 49 CFR Package Group:</b> Currently not available</p> <p><b>8.4 Marine Pollutant:</b> Yes</p> <p><b>8.5 NFPA Hazard Classification:</b> Not listed</p> <p><b>8.6 EPA Reportable Quantity:</b> Not listed.</p> <p><b>8.7 EPA Pollution Category:</b> Not listed.</p> <p><b>8.8 RCRA Waste Number:</b> Not listed</p> <p><b>8.9 EPA FWPCA List:</b> Not listed</p>
Exposure CALL FOR MEDICAL AID. DUST POISONOUS IF INHALED OR IF SKIN IS EXPOSED. If inhaled will cause coughing or difficult breathing. If in eyes, hold eyelids open and flush with plenty of water. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.	SOLID POISONOUS IF SWALLOWED OR IF SKIN IS EXPOSED. Irritating to skin and eyes. If swallowed will cause coughing, nausea and vomiting. 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.				9. PHYSICAL & CHEMICAL PROPERTIES
Water Pollution Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.					<p><b>9.1 Physical State at 15° C and 1 atm:</b> Solid</p> <p><b>9.2 Molecular Weight:</b> 232.7</p> <p><b>9.3 Boiling Point at 1 atm:</b> Not pertinent</p> <p><b>9.4 Freezing Point:</b> Not pertinent</p> <p><b>9.5 Critical Temperature:</b> Not pertinent</p> <p><b>9.6 Critical Pressure:</b> Not pertinent</p> <p><b>9.7 Specific Gravity:</b> 8 at 20°C (solid)</p> <p><b>9.8 Liquid Surface Tension:</b> Not pertinent</p> <p><b>9.9 Liquid Water Interfacial Tension:</b> Not pertinent</p> <p><b>9.10 Vapor (Gas) Specific Gravity:</b> Not pertinent</p> <p><b>9.11 Ratio of Specific Heats of Vapor (Gas):</b> Not pertinent</p> <p><b>9.12 Latent Heat of Vaporization:</b> Not pertinent</p> <p><b>9.13 Heat of Combustion:</b> -1,200 Btu/lb = -670 cal/g = -28 X 10<sup>5</sup> J/kg</p> <p><b>9.14 Heat of Decomposition:</b> Not pertinent</p> <p><b>9.15 Heat of Solution:</b> Not pertinent</p> <p><b>9.16 Heat of Polymerization:</b> Not pertinent</p> <p><b>9.17 Heat of Fusion:</b> Currently not available</p> <p><b>9.18 Limiting Value:</b> Currently not available</p> <p><b>9.19 Reid Vapor Pressure:</b> Currently not available</p>
1. CORRECTIVE RESPONSE ACTIONS Stop discharge Collection Systems: Dredge	2. CHEMICAL DESIGNATIONS 2.1 CG Compatibility Group: Not listed. 2.2 Formula: HgS 2.3 IMO/UN Designation: 6.1/2025 2.4 DOT ID No.: 2025 2.5 CAS Registry No.: Currently not available 2.6 NAERG Guide No.: 151 2.7 Standard Industrial Trade Classification: 52342	3. HEALTH HAZARDS	4. FIRE HAZARDS	5. CHEMICAL REACTIVITY	6. WATER POLLUTION
3.1 Personal Protective Equipment: Dust mask; goggles or face shield; protective gloves					
3.2 Symptoms Following Exposure: Acute poisoning can result from inhaling dust concentrations of 1.2-8.5 mg/m <sup>3</sup> in air; symptoms include pain and tightness in chest, coughing, and difficulty in breathing. If ingested, toxicity depends on release of the Hg <sup>2+</sup> ion; chronic mercury poisoning can cause kidney, mental, and nervous disturbances. Dust irritates eyes and frequently causes allergic dermatitis; absorption through skin can cause systemic poisoning.					
3.3 Treatment of Exposure: INHALATION: remove to fresh air; give artificial respiration if breathing has stopped. INGESTION: give egg whites, milk, or activated charcoal; induce vomiting; consult physician. EYES: flush with water. SKIN: wash with soap and water.					
3.4 TLV-TWA: 0.025 mg/m <sup>3</sup> (as mercury)					
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: Central nervous system affects, tremors, psychological disturbances in humans					
3.10 Vapor (Gas) Irritant Characteristics: Currently not available					
3.11 Liquid or Solid Characteristics: Currently not available					
3.12 Odor Threshold: Odorless					
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: 0.1 mg/m <sup>3</sup> (as mercury)					
3.17 EPA AEGL: Not listed					
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MSF

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

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
INSOLUBLE			NOT PERTINENT		NOT PERTINENT		NOT PERTINENT