

# MERCURIC SULFATE

MRS

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS	7. SHIPPING INFORMATION	
Common Synonyms Mercury bisulfate Mercury persulfate Mercury (II) sulfate (1:1)	Solid	White	Odorless	<p>4.1 Flash Point: Not flammable</p> <p>4.2 Flammable Limits in Air: Not flammable</p> <p>4.3 Fire Extinguishing Agents: Not pertinent</p> <p>4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent</p> <p>4.5 Special Hazards of Combustion Products: None</p> <p>4.6 Behavior in Fire: Currently not available</p> <p>4.7 Auto Ignition Temperature: Not pertinent</p> <p>4.8 Electrical Hazards: Not pertinent</p> <p>4.9 Burning Rate: Not flammable</p> <p>4.10 Adiabatic Flame Temperature: Currently not available</p> <p>4.11 Stoichiometric Air to Fuel Ratio: Not pertinent</p> <p>4.12 Flame Temperature: Currently not available</p> <p>4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent</p> <p>4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed</p>	<p>7.1 Grades of Purity: 100%</p> <p>7.2 Storage Temperature: Cool</p> <p>7.3 Inert Atmosphere: Currently not available</p> <p>7.4 Venting: Currently not available</p> <p>7.5 IMO Pollution Category: Currently not available</p> <p>7.6 Ship Type: Currently not available</p> <p>7.7 Barge Hull Type: Currently not available</p>	
<b>Keep people away. Avoid contact with dust or solid.</b> Wear goggles, self-contained breathing apparatus and rubber overclothing (including gloves). Notify local health and pollution control agencies.						
<b>Fire</b>	Not flammable.					
<b>Exposure</b>	<p>CALL FOR MEDICAL AID. DUST Irritating to skin, eyes, and nose. If inhaled, will cause coughing, pain, and breathing difficulty. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.</p> <p>SOLID POISONOUS IF SWALLOWED. Will burn 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.</p>					
<b>Water Pollution</b>	<p>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.</p>					
<b>1. CORRECTIVE RESPONSE ACTIONS</b>	<p>Stop discharge Contain Collection Systems: Pump; Dredge</p>			<b>2. CHEMICAL DESIGNATIONS</b>		
	<p>2.1 CG Compatibility Group: Not listed. 2.2 Formula: <chem>HgSO4</chem> 2.3 IMO/UN Designation: 6.1/1645 2.4 DOT ID No.: 1645 2.5 CAS Registry No.: 7783-35-9 2.6 NAERG Guide No.: 151 2.7 Standard Industrial Trade Classification: 52349</p>			<b>3. HEALTH HAZARDS</b>		
				<p>3.1 Personal Protective Equipment: Self-contained breathing apparatus, rubber gloves, protective clothing, rubber apron, and safety goggles.</p> <p>3.2 Symptoms Following Exposure: INHALATION: Acute poisoning: Tightness in chest, breathing difficulty, coughing, and pain. EYES: Ulceration of conjunctiva and cornea. SKIN: Irritation; may cause sensitization dermatitis. INGESTION: Necrosis, pain, vomiting, severe purging. Patient may die within a few hours from peripheral vascular collapse.</p> <p>3.3 Treatment of Exposure: Get medical attention. INHALATION: Remove from exposure. EYES: Flush with water. SKIN: Flush with water. INGESTION: Give egg whites, milk, or activated charcoal, then induce vomiting. Consult physician.</p> <p>3.4 TLV-TWA: 0.025 mg/m<sup>3</sup> as Hg.</p> <p>3.5 TLV-STEL: Not listed.</p> <p>3.6 TLV-Ceiling: Not listed.</p> <p>3.7 Toxicity by Ingestion: Grade 4; LD<sub>50</sub> = 50 mg/kg.</p> <p>3.8 Toxicity by Inhalation: Currently not available.</p> <p>3.9 Chronic Toxicity: Damaged kidney, heart, lung, and brain. Psychic and emotional disturbances; fine tremors of hands, head, lips, tongue, or jaw. Salivation, gingivitis, and digestive disturbances are common. Stomatitis is sometimes severe.</p> <p>3.10 Vapor (Gas) Irritancy Characteristics: Currently not available</p> <p>3.11 Liquid or Solid Characteristics: Fairly severe skin irritant. May cause pain and second-degree burns after a few minutes contact.</p> <p>3.12 Odor Threshold: Odorless.</p> <p>3.13 IDLH Value: Not listed.</p> <p>3.14 OSHA PEL-TWA: Not listed.</p> <p>3.15 OSHA PEL-STEL: Not listed.</p> <p>3.16 OSHA PEL-Ceiling: 0.1 mg/m<sup>3</sup> (as mercury)</p> <p>3.17 EPA AEGL: Not listed</p>		
				<p>6. WATER POLLUTION</p> <p>6.1 Aquatic Toxicity: Mercuric ions are considered highly toxic to aquatic life. 0.004 to 0.02 mg/l Hg have been reported harmful to freshwater fish 0.01 mg/l HgSO<sub>4</sub> has killed minnows in 80 to 92 days.</p> <p>6.2 Waterfowl Toxicity: Currently not available</p> <p>6.3 Biological Oxygen Demand (BOD): Currently not available</p> <p>6.4 Food Chain Concentration Potential: Many organisms can accumulate mercury from water. Bioconcentrate up to 10,000 fold.</p> <p>6.5 GESAMP Hazard Profile: Bioaccumulation: + Damage to living resources: 4 Human Oral hazard: 3 Human Contact hazard: II Reduction of amenities: XX</p>		
				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

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
SOLUBLE			CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE