

MATERIAL SAFETY DATA SHEET

24HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Mercury (II) sulfate
CAS#: 7783-35-9
FORMULA: HgSO₄
SYNONYM: Mercury bisulfate, Sulfuric acid, mercury(2+) salt (1:1)

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7783-35-9	100	.025mg/m ³ (as Hg)	1 mg/l Om ³ (as Hg)

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Mercury is poisonous by ingestion and inhalation. Prolonged exposure may permanently degrade the central nervous system.

PRIMARY ROUTES OF EXPOSURE: Ingestion, Inhalation of dust.

EYE CONTACT: May cause slight to mild irritation of the eyes.

SKIN CONTACT: May cause slight to mild irritation of the skin.

INHALATION: Inhalation of mercury compounds may cause severe respiratory and gastrointestinal distress and damage the central nervous system.

INGESTION: Ingestion of mercury compounds may lead to dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, and convulsions.

CHRONIC HEALTH EFFECTS: The chronic effects of mercury poisoning include stomatitis, tremors, psychic disturbances, excessive salivation, and pain on chewing. Other effects include loss of memory, insomnia, lack of confidence, irritability and depression.

ACUTE HEALTH EFFECTS: Poison. Stomach upset and pain, mouth pain, vomiting, excessive salivation, urine production stops, urine products appear in the blood, ataxia (difficulty in moving).

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as

difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: none

EXPLOSION LIMITS: none

EXTINGUISHING MEDIUM: Carbon dioxide or dry powder

SPECIAL FIREFIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire this material may emit corrosive fumes of mercury and sulfur oxides.

UNUSUAL FIRE OR EXPLOSION HAZARDS: No unusual fire or explosion hazards.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Small spills can be mixed with powdered sodium carbonate or ground limestone and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container away from moisture.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: white pwdr.

MOLECULAR WEIGHT: 296.67

MELTING POINT (DEG. C.): none

BOILING POINT: no data

VAPOR PRESSURE: not applicable

SPECIFIC GRAVITY: 6.47

SOLUBILITY IN WATER: insoluble

SECTION 10 Stability and Reactivity

STABILITY: hygroscopic
HAZARDOUS POLYMERIZATION: no hazardous polymerization
CONDITIONS TO AVOID: contact with moisture
INCOMPATIBILITY: azides, fulminates and reducing agents
DECOMPOSITION PRODUCTS: none

SECTION 11 Toxicological Information

RTECS DATA: Oral (rat); LD50:57 mg/kg. Administration onto the skin (rat); LD50:625 mg/kg. Oral (mouse); LD50:25 mg/kg. Intraperitoneal (mouse); LD50:6300 ug/kg.
MUTAGENIC EFFECTS: no data
TETRATOGENIC EFFECTS: no data
CARCINOGENIC EFFECTS: no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Mercury sulfates, Mercury sulphate, Class 6.1, UN 1645, PG II

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory
SARA (TITLE 313): Title compound: see category code N458 for reporting.

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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