

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 505.20

Revision Date: November 25, 2002

Section 1 — Chemical Product and Company Identification

Mercurous Sulfate

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Mercurous Sulfate

Synonym: mercury (I) sulfate

CAS#: 7783-36-0

Section 3 — Hazards Identification

White to yellow crystalline powder. Odorless.

Highly toxic by ingestion and inhalation. Severely irritating to body tissues.

Lethal dose for adults is 1 to 4 grams. Avoid all body contact.

FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-3

Exposure-3

Storage-3

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non flammable solid.

Decomposition releases toxic mercury vapor.

NFPA CODE

None Established

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Store in a cool dry place. Deliquescent, store in Flinn Chem-Saf Bag. Store in a poisons cabinet. Keep away from direct sunlight. Use and dispense in a hood.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA 0.1 mg/m³

Section 9 — Physical and Chemical Properties

White to yellow crystalline powder.

Specific Gravity: 7.56

Solubility: Soluble in hot sulfuric acid, dilute nitric acid; only slightly soluble in water.

Formula: Hg₂SO₄

Formula Weight: 497.28

Section 10 — Stability and Reactivity

Avoid contact with acetylene, butynediol, nitromethane, oxidizing agents, acids, ammonia.

Shelf life: Indefinite.

Section 11 — Toxicological Information

Acute effects: Severe irritant

ORL-MUS LD50: 152 mg/kg

Chronic effects: Mercurialism

IHL-RAT LC50: N.A.

Target organs: Nervous system, skin, liver, kidneys, GI system

SKN-RBT LD50: 1175 mg/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

Section 12 — Ecological Information

Data not yet available.

Section 13 — Disposal Considerations

Please consult with state and local regulations.

Flinn Suggested Disposal Method #27f is one option.

Section 14 — Transport Information

Shipping Name: Mercury sulfates

Hazard Class: 6.1, Poison

UN Number: UN1645

N/A = Not applicable

Section 15 — Regulatory Information

Not listed.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Flinn Chemicals--Your Best Choice

flinn@flinnsci.com www.flinnsci.com
P.O. Box 219 Batavia IL 60510
(800) 452-1261 Fax (866) 452-1436