

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 505.20

Revision Date: December 18, 2013

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Mercury(I) Sulfate

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

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **DANGER**

Pictograms



### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, dermal and inhalation (Category 1). Fatal if inhaled or in contact with skin (H310 +H330). Do not breath dust or fumes (P260).

Hazard class: Acute toxicity, oral (Category 2). Fatal if swallowed (H300). Do not eat, drink or smoke when using this product (P270).

Hazard class: Hazardous to the aquatic environment, acute toxicity (Category 1). Very toxic to aquatic life (H400).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Mercury(I) sulfate	7783-36-0	Hg <sub>2</sub> SO <sub>4</sub>	497.28	
Synonym: Mercurous sulfate				

### SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

**If on skin:** Gently wash with plenty of soap and water (P302 + P350).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

When heated to decomposition, may emit toxic fumes.

**In case of fire:** Use a tri-class dry chemical fire extinguisher.

**NFPA CODE**

H-4

F-0

R-1

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Do not allow solid to become airborne. Ventilate area. Sweep up the spill, place in a sealed bag or container, and dispose. Wash spill site after material pickup is complete. Do not let product enter drains. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates, and phosphates. Store in a poisons cabinet. Keep away from direct sunlight. Keep container tightly closed (P233). Use only in a hood or in a well ventilated area (P271). Keep in a dry place.

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling (P264).  
Exposure guidelines: PEL 0.1 mg/m<sup>3</sup> (OSHA), TLV 0.025 mg/m<sup>3</sup> (ACGIH) Readily absorbed through the skin.

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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White to yellow crystalline powder.

Specific gravity: 7.56

Soluble: Hot sulfuric acid and dilute nitric acid. Slightly in water.

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**SECTION 10 — STABILITY AND REACTIVITY**

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

Shelf life: Indefinite, if stored properly.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Severe irritant

ORL-MUS LD<sub>50</sub>: 152 mg/kg

Chronic effects: Mercurialism

IHL-RAT LC<sub>50</sub>: N.A.

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

SKN-RBT LD<sub>50</sub>: 1175 mg/kg

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

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #27f is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Mercury sulfates; Hazard class: 6.1, Poison; UN number: UN1645

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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Not listed.

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**SECTION 16 — OTHER INFORMATION**

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.