

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

MSDS #: 350.00

Revision Date: September 15, 2004

## Material Safety Data Sheet (MSDS)

### Section 1 — Chemical Product and Company Identification

#### Iron(II) Sulfide

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

Iron(II) Sulfide

Synonym: Ferrous Sulfide

CAS#: 1317-37-9

### Section 3 — Hazards Identification

Shiny black powder or lumps.

Material considered to be non-hazardous unless in contact with acids.

Contact with acids liberates poisonous hydrogen sulfide gas.

#### FLINN AT-A-GLANCE

Health-0

Flammability-0

Reactivity-2

Exposure-0

Storage-2

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: Give large quantities of water. Call a physician or poison control at once.

### Section 5 — Fire Fighting Measures

Non flammable solid.

When heated to decomposition, emits toxic fumes SO<sub>x</sub>. Contact with acids liberates poisonous hydrogen sulfide gas.

**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

None

Established

### Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Remove all water and acid 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 #5. Store with sulfides, phosphides, carbides and nitrides.

Keep container tightly closed. Moisture sensitive material. Must be stored away from any source of moisture and away from any acid. Store in a Flinn Chem-Saf bag and then inside a Flinn Saf-Stor can.

### 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 exhaust ventilation to keep airborne concentrations low.

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### Section 9 — Physical and Chemical Properties

Shiny black powder or lumps.  
Solubility: Soluble: acids; not in water.  
Formula: FeS  
Formula Weight: 87.91

Specific Gravity: 4.75  
Melting Point: 1195 C

### Section 10 — Stability and Reactivity

Avoid contact with acids, as this liberates poisonous hydrogen sulfide gas, and strong oxidizers.  
Shelf Life: Poor. Must be stored away from any source of moisture and away from any source of acid.

### Section 11 — Toxicological Information

Acute effects: N.A.  
Chronic effects: N.A.  
Target organs: N.A.

ORL-RAT LD50: N.A.  
IHL-RAT LC50: N.A.  
SKN-RBT LD50: N.A.

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 #26a is one option.

### Section 14 — Transport Information

Shipping Name: Not regulated  
Hazard Class: N/A  
UN Number: N/A

N/A = Not applicable

### Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (215-268-6), RCRA code D003.

### 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.**

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*Improve Safety--Use Flinn Chemicals*

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