

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

MSDS #: 340.00

Revision Date: September 20, 2004

## Material Safety Data Sheet (MSDS)

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### Section 1 — Chemical Product and Company Identification

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#### Iron(III) Nitrate

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

CHEMTREC Emergency Phone Number: (800) 424-9300

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### Section 2 — Composition, Information on Ingredients

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Iron(III) nitrate, nonahydrate

Synonym: ferric nitrate

CAS#: 7782-61-8

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### Section 3 — Hazards Identification

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Pale violet crystal. Slight nitric acid odor.

Slightly toxic by ingestion and inhalation. Irritant to body tissues. Avoid all body tissue contact.

Strong oxidizer. Dangerous fire risk.

#### FLINN AT-A-GLANCE

Health-1

Flammability-0

Reactivity-3

Exposure-1

Storage-1

0 is low hazard, 3 is high hazard

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### Section 4 — First Aid Measures

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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.

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### Section 5 — Fire Fighting Measures

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Non flammable solid.

Strong oxidizer, contact with combustible material may cause fire. When heated to decomposition, emits toxic fumes of NOx.

**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

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### Section 6 — Accidental Release Measures

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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.

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### Section 7 — Handling and Storage

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Flinn Suggested Chemical Storage Pattern: Inorganic #3. Store with amides, nitrates and nitrites.

Moisture sensitive material. Deliquescent, store in Flinn Chem-Saf Bag. Store in a cool dry place.

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### Section 8 — Exposure Controls, Personal Protection

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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

Pale violet crystal. Slight nitric acid odor.  
Solubility: Soluble in water, alcohol, acetone.  
Formula:  $\text{Fe}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$   
Formula Weight: 404.00

Specific Gravity: 1.7  
Melting Point: 47.2 C

### Section 10 — Stability and Reactivity

Avoid contact with combustible materials.  
Shelf life: Fair to poor, deliquescent, store in a Flinn Chem-Saf bag.

### Section 11 — Toxicological Information

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

ORL-RAT LD50: 3250 mg/kg  
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: Ferric nitrate  
Hazard Class: 5.1, Oxidizer  
UN Number: UN1466

N/A = Not applicable

### Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (233-899-5), RCRA code D001.

### 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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