

Smith Sci 106-110

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 338.00

Revision Date: July 1, 1996

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Ferric Chloride

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

Ferric Chloride

Synonym: iron (III) chloride

CAS#: 10025-77-1

### SECTION 3 — HAZARDS IDENTIFICATION

Yellowish hygroscopic crystals. Slight chlorine odor.

Strong irritant to skin and tissue; moderately toxic by ingestion. Corrosive, avoid all body tissue contact.

#### FLINN AT-A-GLANCE

Health-1

Flammability-0

Reactivity-1

Exposure-2

Storage-1

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. After vomiting, give mixture of 2 Tbs. of activated charcoal mixed with one cup of water. Call a physician or poison control at once.

### SECTION 5 — FIRE FIGHTING MEASURES

Non flammable solid.

When heated to decomposition, emits toxic chlorine 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. 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. 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 1.0 ppm (Fe) (NIOSH)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Yellowish, hygroscopic crystals. Slight chlorine odor.  
Solubility: Soluble in water, acetone, alcohol, and ether.  
Formula: FeCl<sub>3</sub> 6H<sub>2</sub>O  
Formula Weight: 270.32

Specific Gravity: 2.898 (anhydrous)  
Melting Point: 37 C

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with strong oxidizers, sodium, potassium.  
Shelf Life: Fair to poor; hygroscopic, store in a Flinn Chem-Saf bag.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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

ORL-RAT LD50: 1278 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.

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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 consult with state and local regulations.  
Flinn Suggested Disposal Method #26a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (231-729-4).

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**SECTION 16 — OTHER INFORMATION**

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