

## Iron(III) Chloride Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Iron(III) Chloride

Signal Word  
**DANGER**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261  
 Chemtrec Emergency Phone Number: (800) 424-9771

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).



Hazard class: Skin corrosion or irritation (Category 2). Causes skin irritation (H315).



Hazard class: Serious eye damage or irritation (Category 1). Causes serious eye damage (H318).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Iron(III) chloride, hexahydrate	10025-77-1	FeCl <sub>3</sub> •6H <sub>2</sub> O	270.32	
Synonyms: Ferric chloride				

### 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 so. Continue rinsing (P305+P351+P338).

**If on skin:** Rinse cautiously with water for several minutes (P351).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P301+P330+P312).

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

NFPA Code

When heated to decomposition, may emit toxic fumes.

None established

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

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up the spill, place in a 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 #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates.

Hygroscopic. Store in a cool, dry place within a Flinn Chem-Saf™ bag.

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## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

Exposure guidelines: TLV 1 mg/m<sup>3</sup> (ACGIH)

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## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

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Yellowish, hygroscopic crystals. Slight chlorine odor. Melting point: 37 °C (decomposes)

Soluble: Water, acetone, alcohol, and ether. Specific gravity: 1.82

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## SECTION 10 — STABILITY AND REACTIVITY

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Avoid contact with strong oxidizers, sodium, and potassium.

Shelf life: Fair to poor. Hygroscopic. See Section 7 for further information.

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## SECTION 11 — TOXICOLOGICAL INFORMATION

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Acute effects: Serious eye damage, skin and mucous membrane irritation, diarrhea, vomiting ORL-RAT LD<sub>50</sub>: 1278 mg/kg.  
IHL-RAT LC<sub>50</sub>: N.A.

Chronic effects: liver damage SKN-RBT LD<sub>50</sub>: N.A.

Target organs: mucous membranes, skin, eyes, liver

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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 #26a is one option.

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## SECTION 14 — TRANSPORT INFORMATION

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Shipping name: Corrosive Solid, Acidic, Inorganic, NOS (Ferric Chloride 6 Hydrate). Hazard class: 8. UN number: UN3260.

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

N/A = Not applicable

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

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