



# American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: [www.aicma.com](http://www.aicma.com) Email: [info@aicma.com](mailto:info@aicma.com)

## MATERIAL SAFETY DATA SHEET

### FERRIC NITRATE

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
---	---	--

Date: August 2007

Synonyms: Iron (III) Nitrate

CAS #: 7782-61-8

DOT Hazard Class: UN 1466, Oxidizer

#### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Ferric Nitrate 100%

#### SECTION 3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Gray to light purple crystal with a faint acid odor. May cause irritation to skin, eyes and respiratory tract. It is an oxidizer and should be kept away from combustible materials, powder metals, flammable materials; can cause fire or explosion upon contact.

**POTENTIAL HEALTH EFFECTS:**

**Skin:** May cause skin irritation.

**Eyes:** May cause irritation or burning.

**Inhalation:** May cause irritation to the respiratory tract.

**Ingestion:** Not a hazard with normal industrial usage.

**CARCINOGENICITY:** Not Identifiable

#### SECTION 4 - FIRST AID MEASURES

**Skin:** Immediately wash skin with soap and water for at least 15 minutes.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.

**Inhalation:** Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** Wash out mouth with water.

**On All Of The Above:** Consult a physician if symptoms persist.

---

## **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: Non-combustible (Dry Product)

Flammable Limits: Not applicable

Extinguishing Media: Water spray

Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

Unusual Fire Explosion Hazard: Strong oxidizer. Contact with combustible materials, flammable materials, or powdered metals can cause fire or explosion. Closed containers exposed to heat may explode.

Auto Ignition Temperature: Not applicable

---

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

---

## **SECTION 7 - HANDLING AND STORAGE**

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking. Keep away from flammable and combustible material.

---

## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:** Use NIOSH/MSHA approved respirators.

**VENTILATION REQUIREMENTS:** Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the limit.

**SKIN AND EYE PROTECTION:**

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

**WORK, HYGIENIC PRACTICES:**

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: TLV/TWA: 1 mg/m<sup>3</sup> - for soluble Iron Salts as Fe  
PEL: 1mg/m<sup>3</sup> - for soluble Iron Salts as Fe

---

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: Not applicable

Vapor Pressure (MM Hg): Not applicable

Vapor Density (AIR=1): 14.0

Specific Gravity (H<sub>2</sub>O=1): 1.68

Percent Volatile by Volume (%): 0 @ 21°C

Melting Point: 47°C (116°F)

Evaporation Rate (Butyl Acetate=1): Not applicable

Solubility in Water: Appreciable

pH: Not applicable

---

## **SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen

KEEP AWAY FROM: Strong reducing agents, combustible materials most common metals and organic materials.

---

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

Oral Rat LD<sub>50</sub> - 3250 mg/kg

---

## **SECTION 12 - ECOLOGICAL INFORMATION**

Not available

---

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

---

**SECTION 14 - TRANSPORTATION INFORMATION**

D.O.T. SHIPPING NAME: Ferric Nitrate

**IF NOT REGULATED ELIMINATE BELOW:**

U.N./N.A. NUMBER..1466

D.O.T. HAZARD CLASS AND GROUP NUMBER..5.1, PG III

D.O.T. LABEL/PLACARD..5.1 Oxidizer

PRODUCT LABEL.....5.1 Oxidizer

OTHER INFORMATION....None

---

**SECTION 15 - REGULATORY INFORMATION**

OSHA STATUS: Not Listed

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) 1000 lbs

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Unlisted

Section 313 Toxic Chemicals: Unlisted

Section 311/312 Hazard Category: Reactive

---

**SECTION 16 - OTHER INFORMATION**

Reason for Issue: Changed Date

**This information is given without any warranty or representation. It is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. American International Chemical, Inc., shall not be held liable for any damage resulting from handling or contact with the above product. It is offered solely for your consideration, investigation and verification.**

---