Material Safety Data Sheet
Ferric nitrate, nonahydrate

Section 1 - Chemical Product and Company Identification

MSDS Name:
Ferric nitrate, nonahydrate
Catalog Numbers:
LC14410
Synonyms:
Iron nitrate, nonahydrate
Company Identification:
LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238
Company Phone Number:
(412) 826-5230
Emergency Phone Number:
(800) 424-9300
CHEMTREC Phone Number:
(800) 424-9300

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name:</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-61-8</td>
<td>Ferric nitrate.9H2O</td>
<td>100</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

Emergency Overview

Appearance: pale violet crystals

Caution! May cause severe respiratory and digestive tract irritation with possible burns. May cause severe skin irritation and possible burns. May cause severe eye irritation and possible injury.

Target Organs: none known.

Potential Health Effects

Eye:
May cause eye irritation and possible burns.

Skin:
May cause skin irritation and possible burns.

Ingestion:
May cause corrosion and permanent tissue destruction of the esophagus and digestive tract.

Inhalation:
May cause severe irritation of the respiratory tract with possible burns.
Chronic:
May cause dermatitis and conjunctivitis. Ingestion may lead to hemosiderosis, anemia, nephritis, and methemoglobinemia. Prolonged contact may cause irritation or erosion of teeth, ulceration of the mouth, irritation of respiratory tract, dermatitis, conjunctivitis.

Section 4 - First Aid Measures

Eyes:
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once. Cover burns with loose sterile non-medicated bandages.

Skin:
Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes. Cover burns with a dry sterile bandage (secure, not tight).

Ingestion:
Do NOT induce vomiting. Get medical aid at once. If victim is conscious, give 2-4 glasses of water.

Inhalation:
Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:
Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:
Use water spray to keep fire-exposed containers cool. Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust.

Extinguishing Media:
Use water only!

Autoignition Temperature:
No information found.

Flash Point:
No information found.

NFPA Rating:
CAS# 7782-61-8: Not published.

Explosion Limits:
Lower:          Upper:

Section 6 - Accidental Release Measures

General Information:
Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:
Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. Neutralize spill with sodium bicarbonate.
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Section 7 - Handling and Storage

Handling:
Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

Storage:
Store in a cool, dry area. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Provide local exhaust or general dilution ventilation.

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACMIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferric nitrate.9H2O</td>
<td>None of the components are on this list.</td>
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</tr>
</tbody>
</table>

OSHA Vacated PELs:

Personal Protective Equipment

Eyes:
Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:
Wear appropriate protective gloves to prevent skin exposure.

Clothing:
Wear appropriate protective clothing to prevent skin exposure.

Respirators:
Firefighting—any self-contained breathing apparatus with full facepiece operated in pressure-demand mode. Any type "C" supplied air respirator operated in pressure demand mode.

Section 9 - Physical and Chemical Properties

Physical State: Crystals
Color: Pale violet
Odor: Odorless
pH: acidic
Vapor Pressure: No information found.
Vapor Density: No information found.
Evaporation Rate: No information found.
Viscosity: No information found.
Boiling Point: 257F
Freezing/Melting Point: 117F
Decomposition Temperature: 100C
Solubility in water: Soluble.
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Specific Gravity/Density: 1.68
Molecular Formula: Fe(NO3)3·9H2O
Molecular Weight: 403.98

Section 10 - Stability and Reactivity

Chemical Stability:
Stable under normal temperatures and pressures.

Conditions to Avoid:
Incompatible materials.

Incompatibilities with Other Materials:
Combustible materials, reducing agents, strong oxidizing agents.

Hazardous Decomposition Products:
Oxides of nitrogen.

Hazardous Polymerization:
Has not been reported

Section 11 - Toxicological Information

RTECS:
CAS# 7782-61-8: NO7175000.

LD50/LC50:
CAS# 7782-61-8:
Oral, rat: LD50 = 3250 mg/kg.

Carcinogenicity:
CAS# 7782-61-8: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: Ferric nitrate
Hazard Class: 5.1
UN Number: UN1466
Packing Group: PG III

Section 15 - Regulatory Information

US Federal

TSCA:
CAS# 7782-61-8 is not listed on the TSCA Inventory. However, the anhydrous salt is listed.

SARA Reportable Quantities (RQ):

CERCLA/SARA Section 313:

OSHA - Highly Hazardous:

US State

State Right to Know:

California Regulations:

European/International Regulations

Canadian DSL/NDSL:

Canada Ingredient Disclosure List:
CAS# 7782-61-8 is not listed on Canada's Ingredient Disclosure List. However, iron salts (soluble) are listed.

Section 16 - Other Information

MSDS Creation Date: October 22, 2004
Revision Date: October 22, 2004

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