



**Material Safety Data Sheet**  
**Ferric ammonium sulfate, 8% - saturated**

**Section 1 - Chemical Product and Company Identification**

**MSDS Name:**

Ferric ammonium sulfate, 8% - saturated

**Catalog Numbers:**

LC14270, LC14275

**Synonyms:**

Volhard indicator for chloride

**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**

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7783-83-7	Ferric ammonium sulfate, dodecahydrate	8 - saturated

**Section 3 - Hazards Identification**

**EMERGENCY OVERVIEW**

*Appearance: light purple*

*May cause eye and skin irritation.*

*Target Organs: none known.*

**Potential Health Effects****Eye:**

May cause eye irritation.

**Skin:**

May cause skin irritation.

**Ingestion:**

May cause gastrointestinal irritation. Abdominal pain, vomiting, hematemesis, diarrhea, coma, death may occur on ingestion of large quantities.



## Material Safety Data Sheet

### Ferric ammonium sulfate, 8% - saturated

**Inhalation:**

May cause respiratory tract irritation.

**Chronic:**

Long term exposure may cause hemosiderosis with possible damage to liver and pancreas.

## 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.

**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.

**Ingestion:**

Get medical aid at once. If victim is conscious, use gastric lavage with concentrated solution of sodium bicarbonate.

**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:**

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

No information found.

**Flash Point:**

No information found.

**NFPA Rating:**

CAS# 7732-18-5: Not published.

CAS# 7783-83-7: 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.



**Material Safety Data Sheet**  
**Ferric ammonium sulfate, 8% - saturated**

**Section 7 - Handling and Storage**

**Handling:**

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

**Storage:**

Store in a cool, dry area.

**Section 8 - Exposure Controls, Personal Protection**

**Engineering Controls:**

Provide local exhaust or general dilution ventilation.

**Exposure Limits**

<b>Chemical Name:</b>	<b>ACGIH</b>	<b>NIOSH</b>	<b>OSHA</b>
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Ferric ammonium sulfate, dodecahydrate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

**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:**

Not required for normal use. Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.

**Section 9 - Physical and Chemical Properties**

**Physical State:** Clear liquid

**Color:** light purple

**Odor:** odorless

**pH:** slightly acidic

**Vapor Pressure:** 14mm Hg @20°C

**Vapor Density:** > air

**Evaporation Rate:** < ether

**Viscosity:** No information found.

**Boiling Point:** > 212°F (> 100.00°C)

**Freezing/Melting Point:** < 32°F (< 0.00°C)



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**Decomposition Temperature:** No information found.

**Solubility in water:** Soluble.

**Specific Gravity/Density:** 1.1

**Molecular Formula:** No information found.

**Molecular Weight:** No information found.

## Section 10 - Stability and Reactivity

### Chemical Stability:

Stable under normal temperatures and pressures.

### Conditions to Avoid:

None reported.

### Incompatibilities with Other Materials

None reported.

### Hazardous Decomposition Products

Oxides of nitrogen, oxides of sulfur.

### Hazardous Polymerization

Has not been reported

## Section 11 - Toxicological Information

### RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 7783-83-7: WS5900000.

### LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 7783-83-7:

No information found.

### Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7783-83-7: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

### Epidemiology:

Dry ferric ammonium sulfate-- toxicity has not been quantified. Causes irritation to eyes, skin, mucous membranes.

Iron poisoning may affect liver, kidneys, cardiovascular, respiratory, digestive, and central nervous systems.

### Teratogenicity:

### Reproductive:

### Mutagenicity

### Neurotoxicity

## Section 12 - Ecological Information

No information found.



**Material Safety Data Sheet**  
**Ferric ammonium sulfate, 8% - saturated**

**Section 13 - Disposal Considerations**

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

**Section 14 - Transport Information**

**US DOT**

**Shipping Name:** Not regulated.

**Hazard Class:**

**UN Number:**

**Packing Group:**

**Section 15 - Regulatory Information**

**US Federal**

**TSCA**

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 7783-83-7 is not listed on the TSCA Inventory. It is for research and development use only.

**SARA Reportable Quantities (RQ)**

None of the components are on this list.

**CERCLA/SARA Section 313**

None of the components are on this list.

**OSHA - Highly Hazardous**

None of the components are on this list.

**US State**

**State Right to Know**

**California Regulations**

**European/International Regulations**

**Canadian DSL/NDSL**

CAS# 7732-18-5 is listed on Canada's DSL List.

**Canada Ingredient Disclosure List**

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7783-83-7 is not listed on Canada's Ingredient Disclosure List.

**Section 16 - Other Information**

MSDS Creation Date: October 21, 1997

Revision Date: November 17, 2005



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