



## 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 or

011-703-527-3887

#### Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7783-83-7	Ferric ammonium sulfate, dodecahydrate	8 - 73

#### Section 3 - Hazards Identification

##### Emergency Overview

**Appearance:** clear, yellow-brown solution

**Caution.** 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.

**Inhalation:**

May cause respiratory tract irritation.

**Chronic:**

Not available



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#### 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:**

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid.

**Ingestion:**

Do not induce vomiting unless directed by trained medical personnel. Get medical aid at once.

**Inhalation:**

Move victim to fresh air. Give artificial respiration if necessary. Get medical aid.

**Notes to Physician:**

Treat symptomatically and supportively.

**Antidote:**

The use of Deferoxamine as a chelating agent should be determined only by qualified medical personnel.

#### Section 5 - Fire Fighting Measures

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**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: Health- 0, Flammability- 0, Instability- 0

CAS# 7783-83-7: Health- 1, Flammability- 0, Instability- 0

**Explosion Limits:**

Lower: n/a Upper: n/a

#### 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 a suitable container labeled for later disposal.



## Material Safety Data Sheet

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#### Section 7 - Handling and Storage

**Handling:**

Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

**Storage:**

Store tightly closed in a cool, dry area away from incompatible substances.

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

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits:**

Chemical Name:	ACGIH	NIOSH	OSHA
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	1 mg/m3 TWA (as Fe) (listed under Iron salts, soluble)	1 mg/m3 TWA (as Fe) (listed under Iron salts, soluble)	None of the components are on this list

**OSHA Vacated PELs:**

Ferric Ammonium Sulfate Dodecahydrate: 1 mg/m3 TWA (as Fe) (listed under Iron salts (soluble))

#### Personal Protective Equipment

**Eyes:**

Do not wear contact lenses when working with chemicals. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Clear liquid
<b>Color:</b>	Yellow-brown
<b>Odor:</b>	Odorless
<b>pH:</b>	Slightly acidic
<b>Vapor Pressure:</b>	Not available
<b>Vapor Density:</b>	Not available
<b>Evaporation Rate:</b>	Not available



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Viscosity:	Not available
Boiling Point:	Not available
Freezing/Melting Point:	Not available
Decomposition Temperature:	Not available
Solubility in water:	Soluble.
Specific Gravity/Density:	1.0-1.1
Molecular Formula:	Not available
Molecular Weight:	Not available

## Section 10 - Stability and Reactivity

### Chemical Stability:

Stable under normal temperatures and pressures.

### Conditions to Avoid:

Incompatible materials, excess heat.

### Incompatibilities with Other Materials:

Strong oxidizing agents.

### Hazardous Decomposition Products:

Oxides of nitrogen, oxides of sulfur, ammonia and derivatives.

### 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:

No information found

### Teratogenicity:

No information found

### Reproductive:

No information found

### Mutagenicity:

No information found

### Neurotoxicity:

No information found



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#### 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:** 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 because it is a hydrate. It is considered to be listed if the anhydrous form is listed.

###### 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:

Not available

###### California Regulations:

None

##### European/International Regulations

###### Canadian DSL/NDSL:

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

CAS# 7783-83-7 is not listed on Canada's DSL or NDSL Lists.

###### 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.



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**Section 16 - Other Information**

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Revision Date: November 30, 2009

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