

**Material Safety Data Sheet**  
**Ferric ammonium sulfate solution (2.5%)**

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

**MSDS Name:**

Ferric ammonium sulfate solution (2.5%)

**Catalog Numbers:**

88047

**Synonyms:**

None Known.

**Company Identification:**

Richard Allan Scientific  
4481 Campus Drive  
Kalamazoo, MI 49008

**Company Phone Number:**

800-522-7270

**Emergency Phone Number:**

800-424-9300

**CHEMTREC Phone Number, US:**

(800) 424-9300

**CHEMTREC Phone Number, Europe:**

(202) 483-7616

**Section 2 - Composition, Information on Ingredients**

CAS#	Chemical Name:	Percent	EINECS/ ELINCS	Hazard Symbols	Risk Phrases
7732-18-5	Distilled Water	97.5	231-791-2		
7783-83-7	Iron (iii) ammonium sulfate dodecahydrate	2.5	Not available.		

**Section 3 - Hazards Identification**

**EMERGENCY OVERVIEW**

*Appearance: No information found.*

*Caution! May cause eye, skin, and respiratory tract irritation.*

*Target Organs: no data found.*

**Potential Health Effects**

**Eye:**

May cause eye irritation.

**Skin:**

May cause skin irritation.

**Material Safety Data Sheet**  
**Ferric ammonium sulfate solution (2.5%)**

**Ingestion:**

May cause irritation of the digestive tract.

**Inhalation:**

May cause respiratory tract irritation.

**Chronic:**

No information found.

**Section 4 - First Aid Measures**

**Eyes:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

**Skin:**

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

**Ingestion:**

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**

Treat symptomatically and supportively.

**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:**

Use extinguishing media most appropriate for the surrounding fire.

**Autoignition Temperature:**

No information found.

**Explosion Limits:**

Lower:      Upper:

**Flash Point:**

No information found.

**NFPA Rating:**

(estimated) Health: 1; Flammability: 0; Instability: 0

**Section 6 - Accidental Release Measures**

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Material Safety Data Sheet**  
**Ferric ammonium sulfate solution (2.5%)**

**Spills/Leaks:**

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

**Section 7 - Handling and Storage**

**Handling:**

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

**Storage:**

Store in a tightly closed container. Store at room temperature.

**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
Distilled Water	None listed.	None listed.	None listed.
Iron (iii) 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 listed.

**OSHA Vacated PELs**

Iron (iii) ammonium sulfate dodecahydrate 1 mg/m3 TWA (as Fe) (listed under Iron salts (soluble))

**Personal Protective Equipment**

**Eyes:**

Wear chemical splash goggles.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

**Section 9 - Physical and Chemical Properties**

**Physical State:** Liquid

**Color:** No information found.

**Odor:** No information found.

**pH:** No information found.

**Vapor Pressure:** No information found.

## Material Safety Data Sheet

### Ferric ammonium sulfate solution (2.5%)

**Vapor Density:** No information found.  
**Evaporation Rate:** No information found.  
**Viscosity:** No information found.  
**Boiling Point:** No information found.  
**Freezing/Melting Point:** No information found.  
**Decomposition Temperature:** No information found.  
**Solubility in water:** No information found.  
**Specific Gravity/Density:** No information found.  
**Molecular Formula:** Solution  
**Molecular Weight:** No information found.

## Section 10 - Stability and Reactivity

### Chemical Stability:

Stable under normal temperatures and pressures.

### Conditions to Avoid:

Excess heat.

### Incompatibilities with Other Materials

strong oxidizing agents.

### Hazardous Decomposition Products

Nitrogen oxides, oxides of sulfur, ammonia and/or 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.

**Material Safety Data Sheet**  
**Ferric ammonium sulfate solution (2.5%)**

**Mutagenicity:**

No information found.

**Neurotoxicity:**

No information found.

**Other:**

The toxicological properties have not been fully investigated.

**Section 12 - Ecological Information**

No information found.

**Section 13 - Disposal Considerations**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40CFR Part 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P Series Wastes**

None of the components are on this list.

**RCRA U Series Wastes**

None of the components are on this list.

**Section 14 - Transport Information**

**US DOT**

**Canadian TDG**

**Proper Shipping Name:** Not regulated.

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.

**Health and Safety Reporting List**

None of the components are on this list.

**Chemical Test Rules**

None of the components are on this list.

**TSCA Section 12b**

None of the components are on this list.

## Material Safety Data Sheet

### Ferric ammonium sulfate solution (2.5%)

#### TSCA Significant New Use Rule (SNUR)

None of the components are on this list.

#### CERCLA Hazardous Substances and corresponding RQs

None of the components are on this list.

#### SARA Section 302 Extremely Hazardous Substances

None of the components are on this list.

#### SARA Hazard Categories

CAS# 7783-83-7: reactive.

#### SARA Section 313

None of the components are on this list.

#### Clean Air Act - Hazardous Air Pollutants (HAPs)

None of the components are on this list.

#### Clean Air Act - Class 1 Ozone Depletors

None of the components are on this list.

#### Clean Air Act - Class 2 Ozone Depletors

None of the components are on this list.

#### Clean Water Act - Hazardous Substances

None of the components are on this list.

#### Clean Water Act - Priority Pollutants

None of the components are on this list.

#### Clean Water Act - Toxic Pollutants

None of the components are on this list.

#### OSHA - Highly Hazardous

None of the components are on this list.

#### OSHA - Specifically Regulated Chemicals

None of the components are on this list.

### US State

#### State Right to Know

Iron (iii) ammonium sulfate dodecahydrate can be found on the following state Right-to-Know lists: California, (listed as Iron salts (soluble)), Pennsylvania, (listed as Iron salts (soluble)), Minnesota, (listed as Iron salts (soluble)).

#### California Prop 65

CAS# 7732-18-5 No information found.

CAS# 7783-83-7 No information found.

#### California No Significant Risk Level

CAS# 7732-18-5 No information found.

CAS# 7783-83-7 No information found.

### European/International Regulations

#### European Labelling in Accordance with EC Directives:

Hazard Symbols:

Risk Phrases:

Safety Phrases: S 24/25 Avoid contact with skin and eyes.

**Material Safety Data Sheet**  
**Ferric ammonium sulfate solution (2.5%)**

**WGK (Water Danger/Protection)**

No information found.

**United Kingdom Occupational Exposure Limits**

No information found.

**United Kingdom Maximum Exposure Limits**

No information found.

**Canadian DSL/NDSL**

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

**Canadian WHMIS Classifications**

This product does not have a WHMIS classification.

**Canadian Ingredient Disclosure List**

CAS# 7783-83-7 (listed as Iron salts (soluble)) is listed on the Canadian Ingredient Disclosure List.

**Section 16 - Other Information**

Color information has been

MSDS Creation Date: June 6, 2005

Revision Date: September 30, 2008

*This MSDS is intended for review and guidance in the receipt, storage, handling, use and disposal of product purchased from us, and for no other purpose. Use this product only as directed and in accordance with applicable instructions and warnings provided with the product. Please consult your institution's policies regarding use of this product. If you have obtained this MSDS other than in connection with the supply of this product from us, this MSDS should be consulted for general information only, and should not be relied upon for any purpose. As with the use of all hazardous materials, you should in all instances follow the guidance of the MSDS provided or available with the specific product purchased.*