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Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

### Section I - Product Identification

A slightly acidic solution of ferric and ferrous ammonium sulfate in water.

### Section II - Hazards Identification

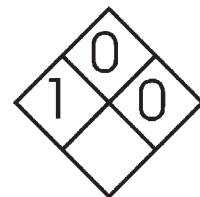
Overview: May be harmful if swallowed. May be irritating to skin, eyes and respiratory tract.

#### Safety Ratings

Health: Slight Flammability: None Reactivity: None Contact: Slight  
Recommended safety equipment: safety goggles, lab coat and proper gloves  
Storage: General storage

#### NFPA Ratings

Health = 1 Flammability = 0 Reactivity = 0



#### Potential Health Effects

The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other weak acids.

*Inhalation:* May be irritating

*Ingestion:* While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc.

*Skin contact:* Not normally a problem

*Eye contact:* May be irritating

*Chronic Exposure:* Unknown

*Aggravation of preexisting conditions:* Unknown

### Section III - Composition/Information on Components

| Ingredients              | CAS#       | OSHA PeI                 | ACGIH TLV                | Other Limits | %      |
|--------------------------|------------|--------------------------|--------------------------|--------------|--------|
| Ferrous ammonium sulfate | 10045-89-3 | 1 mg (Fe)/m3             | 1 mg (Fe)/m3             |              | 1% w/v |
| Ferric ammonium sulfate  | 10138-04-2 | 1 mg (Fe)/m <sup>3</sup> | 1 mg (Fe)/m <sup>3</sup> |              | 1% v/v |
| Hydrochloric acid        | 7647-01-0  | 5 ppm ceiling            | 2 ppm ceiling            |              | 1% v/v |

### Section IV - First Aid Measures

*Inhalation:* Remove from source of exposure and get medical attention for any breathing difficulty.

*Ingestion:* If the victim is conscious, induce vomiting. Never give anything by mouth to an unconscious person.

*Skin Contact:* Wash affected area with soap and water. Get medical advice if irritation develops.

*Eye Contact:* Rinse thoroughly with running water. Get medical advice if irritation develops.

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## Section V - Fire Fighting Measures

*Flash point:* Not applicable.

*Flammable Limits:* Not applicable.

*Explosion:* Not Normally an explosion hazards.

*Fire Extinguishing Media:* Any means suitable for surrounding fire.

*Special information:* Pyrolysis will release corrosive oxides.

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## Section VI - Accidental Release Measures

Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal.

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## Section VII - Handling and Storage

Store in a closed container, protected from freezing.

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## Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section III.

*Ventilation System:* Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

*Skin protection:* Protective gloves are not required but recommended as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

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## Section IX - Physical and Chemical Properties

*Boiling Point:* 100 °C

*Vapor pressure (mm Hg):* 18 @ 20 °C

*Vapor Density (air = 1):* 0.6

*Appearance and Odor:* A clear yellowish liquid with a pungent odor.

*Density:* 1.02 g/ml

*Evaporation Rate (water = 1):* 1

*Solubility:* Infinitely miscible with water

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## Section X - Stability and Reactivity

*Stability:* Freezes at low temperature.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Nothing unusual.

*Conditions to avoid:* Excessive cold/heat and light.

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## Section XI - Toxicological Information

None relating to normal exposure.

Cancer lists

| <u>Ingredient</u>        | <u>Known Carcinogenicity?</u> | <u>Anticipated?</u> | <u>IARC Category</u> |
|--------------------------|-------------------------------|---------------------|----------------------|
| Ferrous ammonium sulfate | no                            | no                  | none                 |
| Ferric ammonium sulfate  | no                            | no                  | none                 |
| hydrochloric acid        | no                            | no                  | 3                    |

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## Section XII - Ecological Information

*Environmental Fate:* Biodegradable

*Environmental Toxicity:* Iron salts are expected to be toxic to aquatic life.

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**Section XIII - Disposal Considerations**

Generally not restricted but local governments have the authority to restrict flushing anything down the drain. Insure compliance with all government regulations.

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**Section XIV - Transportation Information**

Not regulated.

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**Section XV - Regulatory Information****Chemical Inventory Status**

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| <u>Ingredient</u>        | <u>TSCA</u> | <u>EC</u> |
|--------------------------|-------------|-----------|
| Ferrous ammonium sulfate | Yes         | Yes       |
| Ferric ammonium sulfate  | Yes         | Yes       |

**Federal, State and International Regulations**

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| <u>Ingredient</u>        | <u>SARA 302</u> |            | <u>SARA 313</u> |                 | <u>RCRA</u>   | <u>TSCA</u> | <u>Ca. Prop 65</u> |
|--------------------------|-----------------|------------|-----------------|-----------------|---------------|-------------|--------------------|
|                          | <u>RQ</u>       | <u>TPQ</u> | <u>List</u>     | <u>Category</u> | <u>261.33</u> | <u>8(D)</u> |                    |
| Ferrous ammonium sulfate | No              | No         | No              | No              | No            | No          | No                 |
| Ferric ammonium sulfate  | No              | No         | No              | No              | No            | No          | No                 |
| Hydrochloric acid        | 5000            | 500        | No              | No              | No            | No          | No                 |

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes, Chronic: Yes

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**Section XVI - Other Information**

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

Revision Date: Jan. 3, 2018