Section 1 - Chemical Product and Company Identification

MSDS Name: Ammonium iron(III) sulfate dodecahydrate
Catalog Numbers: 20588-0000, 20588-0500, 20588-5000, 42369-0000, 42369-0030, 42369-0250, 42369-5000
Synonyms: Ammonium ferric sulfate; Ferric ammonium sulfate
Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaalana 3a
2440 Geel, Belgium
Company Identification: (USA) Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>%</th>
<th>EINECS#</th>
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</thead>
<tbody>
<tr>
<td>7783-83-7</td>
<td>Ammonium iron(III) sulfate dodecahydrate</td>
<td>99+</td>
<td>unlisted</td>
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</tbody>
</table>

Hazard Symbols: None listed
Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Not available

Potential Health Effects

Eye: May cause eye irritation.
Skin: May cause skin irritation. May be harmful if absorbed through the skin.
Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.
Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.
Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
**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. Substance is noncombustible.

**Extinguishing Media:**
Use extinguishing media most appropriate for the surrounding fire.

**Section 6 - Accidental Release Measures**

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

**Spills/Leaks:**
Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

**Section 7 - Handling and Storage**

**Handling:**
Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

**Storage:**
Store in a cool, dry place. Store in a tightly closed container.

**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**

- **CAS# 7783-83-7:**
  - Belgium - TWA: (iron salts (soluble)): 1 mg/m3 VLE (as Fe)
  - Malaysia: (iron salts (soluble)): 1 mg/m3 TWA (as Fe)
  - Netherlands: (iron salts (soluble)): 1 mg/m3 MAC (as Fe)
  - Spain: (iron salts (soluble)): 1 mg/m3 VLA-ED (as Fe)

**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:**
  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**

- **Physical State:** Crystals
- **Color:** slightly gray - purple
- **Odor:** odorless
- **pH:** 2.5 (0.1M aq.sol.)
- **Vapor Pressure:** Not available
- **Viscosity:** Not available
**Boiling Point:** 230 deg C @760mmHg (446.00°F)

**Freezing/Melting Point:** 39 - 41 deg C

**Autoignition Temperature:** Not available

**Flash Point:** Not available

**Explosion Limits: Lower:** Not available

**Explosion Limits: Upper:** Not available

**Decomposition Temperature:** Not available

**Solubility in water:** 1240 g/l water (25°C)

**Specific Gravity/Density:** 1.710

**Molecular Formula:** H₄FeNO₈S₂.12H₂O

**Molecular Weight:** 482.19

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### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to Avoid:** Incompatible materials, excess light.

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Oxides of nitrogen, oxides of sulfur, ammonia and/or derivatives.

**Hazardous Polymerization:** Will not occur.

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### Section 11 - Toxicological Information

**RTECS#:** CAS# 7783-83-7: WS5900000

**LD50/LC50:** RTECS: Not available.

**Carcinogenicity:** Ammonium iron(III) sulfate dodecahydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

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### Section 12 - Ecological Information

Not available

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### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

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### Section 14 - Transport Information

<table>
<thead>
<tr>
<th>Shipping Name:</th>
<th>IMO</th>
<th>RID/ADR</th>
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</thead>
<tbody>
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<td>Hazard Class:</td>
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<td>Not regulated as a hazardous material</td>
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<tr>
<td>UN Number:</td>
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<td></td>
</tr>
<tr>
<td>Packing Group:</td>
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<td></td>
</tr>
</tbody>
</table>

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### Section 15 - Regulatory Information

**European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:
Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)
CAS# 7783-83-7: 1

Canada

US Federal

TSCA

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

<table>
<thead>
<tr>
<th>Section 16 - Other Information</th>
</tr>
</thead>
</table>

**MSDS Creation Date:** 7/16/1996  
**Revision #3 Date** 7/12/2007  
**Revisions were made in Sections:** 1, 2, 9, 14

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