SDS

永华化学股份有限公司
YONGHUA CHEMICAL CO., LTD.

Ferric ammonium sulfate

1. Product Identification

Synonyms: Ammonium Iron (III) Sulfate; Ammonium ferric sulfate

CAS No.: 7783-83-7

Manufacturer/supplier:

Yonghua Chemical Co., Ltd.

Address: Xiangqiao Village, Zhitang(Heshi)Town, Changshu City 215500,

Jiangsu Province, China

Emergency phone：0086 512 52549653

Website：www.yonghuareagents.com

2. Composition/Information on Ingredients

CAS No.	Chemical Name	Content	EINECS#
7783-83-7	Ferric ammonium sulfate	⩽100	616-517-5

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

3. Hazards Identification

EMERGENCY OVERVIEW

The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract.

Inhalation:

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic:

No information found.

4. First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Immediately 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.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

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

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:

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

6. Accidental Release Measures

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

Spills/Leaks:

Reduce airborne dust and prevent scattering by moistening with water. Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal.

7. Handling and Storage

Handling:

Wash thoroughly after handling. Wash hands before eating. Use only in a well-ventilated area. Do not breathe dust, vapor, mist,

or gas.

Do not get on skin or in eyes. Avoid ingestion and inhalation.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

---

8. Exposure Controls/Personal Protection

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits CAS# 7783-83-7: Belgium - TWA: (listed as iron salts (soluble)): 1 mg/m3 VLE (as Malaysia: (listed as iron salts (soluble)): 1 mg/m3 TWA (as Fe) Netherlands: (listed as iron salts (soluble)): 1 mg/m3 MAC (as Fe Spain: (listed as iron salts (soluble)): 1 mg/m3 VLA-ED (as Fe) Personal Protective Equipment Eyes: 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 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.

---

9. Physical and Chemical Properties

Physical State: Solid

Color: light gray

Odor: Odorless.

pH: 2.5 (0.1 M aq. sol.)

Vapor Pressure: Not available.

Viscosity: Not applicable.

Boiling Point: 230 deg C

Freezing/Melting Point: 37 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: Soluble in water.

Specific Gravity/Density: 1.7100

Molecular Formula: H4FeNO8S2.12H2O

Molecular Weight: 482.1577

---

10. Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:

Strong oxidizers.

Hazardous Decomposition Products:

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

Hazardous Polymerization: Will not occur.

---

11. Toxicological Information

RTECS#:

CAS# 7783-83-7: WS5900000 LD50/LC50:

Not available.

Carcinogenicity:

Ferric ammonium sulfate - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

---

12. Ecological Information

---

13. Disposal Considerations

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

---

14. Transport Information

IATA

No information available.

IMO

No information available.

RID/ADR

No information available.

15.Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 7783-83-7: 1

Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

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

US FEDERAL

TSCA

CAS# 7783-83-7 is not listed on the TSCA inventory.

It is for research and development use only.

---

16. Other Information

Yonghua Chemical Co., Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

****

Prepared by:

Yonghua Chemical Co., Ltd.
TEL: 86-512-52549999
FAX: 86-512-52546337