SDS

永华化学股份有限公司
YONGHUA CHEMICAL CO., LTD.

Ferrous ammonium sulfate hexahydrate

1. Product Identification

Synonyms: Ferrous ammonium sulfate; Mohr's Salt; Ferrous Ammonium Sulfate, Hexahydrate; Sulfuric Acid, Ammonium Iron (2+) Salt, Hexahydrate; Iron Ammonium Sulfate Hydrate.

CAS No.: 7783-85-9

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#
7783-85-9	Ferrous ammonium sulfate hexahydrate	≤100	233-151-8

Hazard Symbols: XI

Risk Phrases: 36/37/38

3. Hazards Identification

EMERGENCY OVERVIEW

Light sensitive.Air sensitive.

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. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract.

Ingestion of large amounts of iron may cause corrosion of the digestiv e tract lining, as well as, perforations and subsequent bleeding.

Inhalation:

May cause respiratory tract irritation.

Chronic:

Prolonged or repeated skin contact may cause dermatitis.

4. First Aid Measures

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

Skin:

Immediately flush skin with plenty of soap and 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.

Inhalation:

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Treat symptomatically and supportively.

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.

Autoignition Temperature: Not available.

Flash Point: Not available.

NFPA Rating: Not published.

Explosion Limits, Lower: Not available.

Upper: Not available

6. Accidental Release Measures

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

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal.

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7. Handling and Storage

Handling:

Wash thoroughly after handling. Wash hands before eating. Use with adequate ventilation. Avoid breathing dust, vapor, mist, or gas.

Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Store protected from light. Store protected from air.

Storage:

Store in a cool, dry place. Do not store in direct sunlight. Store in a tightly closed container. Keep under a nitrogen blanket.

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8. Exposure Controls/Personal Protection

Engineering Controls:

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

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.

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 29CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

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9. Physical and Chemical Properties

Physical State: Solid

Appearance: light blue

Odor: None reported.

pH: 3.0-5.0 (5% aq. sol)

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 100.0 deg C (decomposes)

Decomposition Temperature: 100 deg C

Solubility: Soluble in water.

Specific Gravity/Density: 1.8640

Molecular Formula: H8FeN2O8S2.6H2O

Molecular Weight: 392.112

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10. Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, light, exposure to air, temperatures above 100??C.

Incompatibilities with Other Materials:

Strong acids, strong oxidizers, light, and air.

Hazardous Decomposition Products:

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

Hazardous Polymerization: Will not occur.

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11. Toxicological Information

RTECS#:

CAS# 7783-85-9: BR6500000 LD50/LC50:

CAS# 7783-85-9: Oral, rat: LD50 = 3250 mg/kg.

Carcinogenicity:

Ferrous ammonium sulfate.6H20 - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

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12. Ecological Information

For further information, contact Fisher Scientific.

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13. Disposal Considerations

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

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14. Transport Information

CDG/CPL

IMO

No information available.

IATA

No information available.

RID/ADR

No information available.

Canadian TDG

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# 7783-85-9:

Canada

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

WHMIS: Not available.

CAS# 7783-85-9 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 7783-85-9:. OEL-DENMARK:TWA 1 mg(Fe)/m3 JANUARY 1993. OEL-FINLA ND:TWA 1 mg(Fe)/m3 JANUARY 1993. OEL-THE NETHERLANDS:TWA 1 mg(Fe)/m3 JANUARY 1993. OEL-SWITZERLAND:TWA 1 mg(Fe)/m3 JANUARY 1993. OEL-UNIT ED KINGDOM:TWA 1 mg(Fe)/m3;STEL 2 mg(Fe)/m3 JANUARY 1993

US FEDERAL

TSCA

CAS# 7783-85-9 is not on the TSCA Inventory. It is a hydrate and exempt from TSCA Inventory requirements (40CFR270.3(u)(2)).

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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.

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