SDS

永华化学股份有限公司
YONGHUA CHEMICAL CO., LTD.

Ammonium sulfate

1. Product Identification

Synonyms: Ammonium hydrogen sulfate, diammonium sulfate, Sulfuric acid diammonium salt

CAS No.: 7783-20-2

Manufacturer/supplier:

Yonghua Chemical Co., Ltd.
Address: Xiangqiao Village, Zhitang(Heshi)Town, Changshu City 215500,
Jiangsu Province, China
Emergency phone：0086 512 52549653
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2. Composition/Information on Ingredients

CAS No.	Chemical Name	Content	EINECS#
7783-20-2	Ammonium sulfate	≤100	231-984-1

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

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: 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 soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

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:

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. Use extinguishing media appropriate to the surrounding fire. Substance is nonflammable. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media:

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions.

Provide ventilation.

7. Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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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.

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 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 a respirator's use.

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9. Physical and Chemical Properties

Physical State: Solid

Appearance: white

Odor: odorless

pH: 5.5 (0.1M sol.)

Vapor Pressure: Not available.

Viscosity: Not applicable.

Boiling Point: Decomposes

Freezing/Melting Point: 235 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: > 280 deg C

Solubility in water: 43% at 20C.

Specific Gravity/Density: 1.77 (Water=1)

Molecular Formula: (NH4)2SO4

Molecular Weight: 132.127

10. Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, dust generation, excess heat.

Incompatibilities with Other Materials:

Oxidizing agents.

Hazardous Decomposition Products:

Oxides of sulfur, irritating and toxic fumes and gases, nitrogen oxides (NOx) and ammonia (NH3).

Hazardous Polymerization: Has not been reported.

11. Toxicological Information

RTECS#:

CAS# 7783-20-2: BS4500000 LD50/LC50:

CAS# 7783-20-2: Oral, mouse: LD50 = 640 mg/kg; Oral, rat: LD50 = 2840 mg/kg.

Carcinogenicity:

Ammonium sulfate - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

12. Ecological Information

Ecotoxicity:

Water flea Daphnia: LC50 = 423 mg/L; 25 Hr; Unspecified

13. Disposal Considerations

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

14. Transport Information

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:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 7783-20-2: 1

United Kingdom Occupational Exposure Limits

Canada

CAS# 7783-20-2 is listed on Canada's DSL List.

CAS# 7783-20-2 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 7783-20-2 is listed on the TSCA inventory.

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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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