



SHANGHAI BOSMAN INDUSTRIAL CO., LTD.

Add: Room1804, No.1611, North Sichuan Road, Hongkou District, Shanghai, P.R. China.

Tel: +86 21 63065878 | **Fax:** +86 21 63065878 | **E-mail:** info@bosmangroup.com

Website: www.bosmanagrochem.net

Version: 1.0 Issue date: Oct. 10, 2022

MATERIAL SAFETY DATA SHEET OF

AMMONIUM SULFATE

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Shanghai Bosman Industrial Co., Ltd.

Street address: No.1611, North Sichuan Road, Hongkou District, Shanghai, P.R. China.

FAX: +86 21 63065878

TEL: +86 21 63065878

Product name: Ammonium Sulfate (Caprolactam grade)

Chemical use: Fertilizer

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

INGREDIENT	CAS NO	PROPORTION
Ammonium Sulfate	7783-20-2	99% min.
others	Not available	Up to 100%

Other ingredients determined not to be hazardous

3. HAZARDS IDENTIFICATION

Health hazards:

Harmful if swallowed. May be harmful in contact with skin. May Causes mild skin irritation. Causes eye irritation.

4. FIRST AID MEASURES

General: Have the product container, label or Material Safety Data Sheet with you when going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Skin contact: Wash material off the skin in flowing water or shower with soap. If irritation persists, consult a physician immediately.

Eye contact: Immediately flush with copious amount of water for at least 15 minutes. If irritation persists, consult a physician.

Ingestion: Induce vomiting by giving one or two glasses of water. Get a medical attention immediately. If the victim is unconscious or having convulsions, never give fluids nor induce vomiting.

Inhalation: Remove the victim to fresh air and keep him warm and quiet. Get a medical attention



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immediately.

Note to physician: No specific antidote. Apply symptomatic therapy.

5. FIRE FIGHTING MEASURES

Flash point: Not available.

Extinguishing media: Water spray or fog, dry chemical powder, foam or carbon dioxide.

Special fire-fighting procedure:

Use water, dry chemical powder or carbon dioxide in extinguishing.

For a fire in surrounding area, apply water to cool and protect surrounding equipments. Remove containers, if feasible, from the fire area to safe place immediately.

Fire fighters should wear protective gears including a positive pressure self-contained breathing apparatus.

Evacuate non essential personnel.

Hazardous combustion products: During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH₃, SO_x, PO_x or CN.

6. ACCIDENT RELEASE MEASURES

Avoid breathing dusts and vapors. Sweep up dry spills immediately and transfer to suitable containers for possible land application according to label use or for disposal. Check local, state and federal regulations for proper disposal.

Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

Handling precaution:

Avoid breathing fertilizer dust. Avoid prolonged or repeated skin contact. Avoid eye contact. Wash hands thoroughly after handling this product.

Storage precaution:

Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry, well-ventilated area, preferably in a locked storage area away from children, feed and food products and seed. Store at ambient temperatures. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls:

The use of local exhaust ventilation is recommended. Containers should be kept tightly closed.

Make available emergency showers and eye washes in a work area.

Personal protective equipment:



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Wear chemical cartridge respirator with an organic vapour cartridge, airline respirator, positive pressure self-contained breathing apparatus, safety goggles, gloves and boots as appropriate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystals

pH: NA

Flammability: No flammable

Solubility: Soluble in water

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Hazardous decomposition products: During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH₃, SO_x, PO_x or CN.

Incompatible materials: Strong oxidizing agents. Prolonged contact may cause oxidation of unprotected metals.

Hazardous polymerization: Not known to occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Acute oral toxicity: >4250 mg/kg rat

Acute dermal toxicity: >2000 mg/kg rat

Irritant properties:

Eye irritation: (Rabbit): May cause eye irritant

Skin irritation: (Rabbit): May cause skin irritation in sensitive individuals.

Allergenic and Sensitizing Effects: (Guinea pig) Not sensitizing

12. ECOLOGICAL INFORMATION

Fish LC₅₀ Salmo gairdneri 173 mg/l, 96 hours

Aquatic

Algae EC₅₀ Chlorella vulgaris 2700 mg/l, 18 days

Crustacea EC₅₀ Water flea (Daphnia magna) > 100 mg/l, 96 hours

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Mobility in soil This product is water soluble and may disperse in soil.

Other adverse effects



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No data available

13. DISPOSAL CONSIDERATION

Dispose of in accordance with local regulation.

Do not dump into sewers or into any body of water.

Do not reuse container. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or if allowed by State and local authorities, by burning. If burned, stay out of smoke. Do not contaminate water, food or feed by storage or disposal.

14. TRANSPORT INFORMATION

This product is not classified as dangerous good

UN number: Not regulated.

DOT: Not regulated as a dangerous good..

IATA: Not regulated as a dangerous good.

IMDG: Not regulated as a dangerous good

15. REGULATORY INFORMATION

Follow all regulation in your country.

R-phrases:

R43—May cause sensitization by skin contact.

S-phrases:

S24—Avoid contact with skin.

S37—Wear suitable gloves.

S57—Use appropriate containment to avoid environmental contamination.

16. OTHER INFORMATION

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This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.

-- END OF MSDS --