



SHANGHAI BOSMAN INDUSTRIAL CO., LTD.

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Website: www.bosmanagrochem.net

Version: 1.0 Issue date: June 1, 2024

MATERIAL SAFETY DATA SHEET OF MAGNESIUM SULPHATE HEPTAHYDRATE

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Supplier: Shanghai Bosman Industrial Co., Ltd

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

Tel: + 86 21 63065878

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Product name: Magnesium Sulphate Heptahydrate

2. HAZARDS IDENTIFICATION

Caution! May cause eye, skin, and respiratory tract irritation. The toxicological properties of this material have not been fully investigated.

Target Organs: None known.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

Chronic: No information found.

3.COMPOSITION/INFORMATION ON INGREDIENTS

Other ingredients determined not to be hazardous

INGREDIENT	CAS NO	PROPORTION(%, w/w)
Magnesium sulfate heptahydrate	10034-99-8	99.5% min
Other ingredients	--	Up to 100%

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4. FIRST AID MEASURES

If in eyes: Immediately flush eyes with large amounts of room temperature water, occasionally lifting the lower and upper lids, for at least 15 minutes. If symptoms persist after 15 minutes of irrigation, seek medical attention.

If on skin: Remove all contaminated clothing. For skin contact, wash thoroughly with soap and water for at least 20 minutes. Seek immediate medical attention if irritation develops or persists.

If ingestion: DO NOT INDUCE VOMITING, unless directed by medical personnel. Have victim rinse mouth thoroughly with water, if conscious. Never give anything by mouth to a victim who is unconscious or having convulsions. Contact a physician or poison control center immediately.

If inhalation: Remove source of contamination or move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Get immediate medical attention.

Notes to Physician: There is no specific antidote. Care is symptomatic and supportive.

5. FIRE FIGHTING MEASURES

Flash Point: Not applicable.

Upper Flammable Limit (UEL): Not applicable.

Lower Flammable Limit (LEL): Not applicable.

Auto Ignition: Not available.

Flammability Classification: Not applicable.

General Fire Hazards: Magnesium Sulfate Heptahydrate is not combustible, and does not contribute to the intensity of a fire. When involved in a fire, this material may decompose and produce irritating vapors, acrid smoke and toxic gases.

Hazardous Combustion Products: When heated to decomposition, this product may emit toxic fumes of sulfur oxides.

Extinguishing media: Use methods for surrounding fire.

Fire fighting instructions: Firefighters should wear full protective clothing including self-contained breathing apparatus.

6. ACCIDENT RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures



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Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. 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 mechanical ventilation such as dilution and local exhaust. Use a corrosion-resistant ventilation system and exhaust directly to the outside. Supply ample air replacement. Provide dust collectors with explosion vents.

PERSONAL PROTECTIVE EQUIPMENT

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132). Please reference applicable regulations and standards for relevant details.

Eyes/Face protection: Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection: Wear appropriate work gloves for type of operation.

Respiratory protection: None required where adequate ventilation conditions exist. If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respiratory protection.

General protection: Use good hygiene practices when handling this material including changing and laundering work clothing after use. Have a safety shower or eye-wash fountain available. Wash hands thoroughly after handling material. Do not eat, drink, or smoke in work areas.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White Solid

Odour: NA

pH: NA

Density: NA

Melting point: 226-235°C

10. STABILITY AND REACTIVITY

Chemical Stability: Under normal conditions of temperature and pressure, Magnesium Sulfate Heptahydrate is stable. Loses some moisture on exposure to dry air at room temperature.

Conditions to Avoid: Avoid high temperatures, excessive heat, incompatible materials and air (material is hygroscopic).

Incompatibility: Ethoxy ethyl alcohols, arsenates, phosphates, tartrates, lead, barium, strontium and calcium, strong oxidizers.

Hazardous Decomposition: When heated to decomposition, this product may emit toxic sulfur oxides.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Not available.

Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found

Teratogenicity: No information found

Reproductive Effects: No information found

Mutagenicity: No information found

Neurotoxicity: No information found

12. ECOLOGICAL INFORMATION

Ecotoxicity

Freshwater Algae EC50: = 2700 mg/L, 72h (Desmodesmus subspicatus)

Freshwater Fish LC50: 2610 - 3080 mg/L, 96h static (Pimephales promelas)

Microtox = 84000 mg/L EC50 Photobacterium phosphoreum 30 min

Microtox Water Flea EC50: 266.4 - 417.3 mg/L, 48h Static (Daphnia magna)



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Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

13. DISPOSAL CONSIDERATION

Product Dispose of waste product through an official waste contractor. Obtain advice from local waste regulation authority.

Contaminated packaging Triple- or pressure-rinse containers before disposal. Add rinsings to spray tank.

Do not dispose of undiluted chemicals on-site. Recycle, or return to supplier through local schemes if applicable. Break, crush or puncture and then bury empty containers in a local authority landfill site. Do not burn empty containers. Containers must not be reused for any other purpose.

14. TRANSPORT INFORMATION

Shipping Name: Not Regulated

Hazard Class: Not Regulated

UN Number: Not Regulated

Packing Group: Not Regulated

15. REGULATORY INFORMATION

Follow all local, international laws and regulations.

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 --