

**SAFETY DATA SHEET****1. IDENTIFICATION**

Product name: Magnesium sulfate anhydrous

CAS No. : 7487-88-9

Brand: Macklin

Company: Shanghai Macklin Biochemical Co.,Ltd.

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**2. HAZARDS IDENTIFICATION**

GHS classification

PHYSICAL HAZARDS

Not classified

HEALTH HAZARDS

Specific target organ toxicity Digestive tract  
- Single exposure [Category 2]

ENVIRONMENTAL HAZARDS

Not classified

GHS label elements, including precautionary statements

Pictograms or hazard symbols



Signal word

Warning

Hazard statements

May cause damage to organs : Digestive tract

Precautionary statements

[Prevention]

Do not breathe dust/fume/gas/mist/vapours/spray.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

[Response]

If exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

[Storage]

Store locked up.

[Disposal]

Dispose of contents/container through a waste management company authorized by the local government.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/mixture: Substance

Components:Magnesium sulfate anhydrous

CAS No.:7487-88-9

Chemical Formula:MgSO<sub>4</sub>

## 4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician. Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Call a POISON CENTER or doctor/physician. Ingestion: Call a POISON CENTER or doctor/physician. Rinse mouth. Most important Gastrospasm, Diarrhoea symptoms/effects, acute and delayed: Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing Dry chemical, foam, water spray, carbon dioxide. media: Specific hazards arising Take care as it may decompose upon combustion or in high temperatures to form the chemical: generate poisonous fume. Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. Special protective equipment for firefighters: When extinguishing fire, be sure to wear personal protective equipment.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Use extra personal protective equipment (P3 filter respirator for toxic particles). Keep protective equipment and people away from and upwind of spill/leak. Entry to non-involved personnel should emergency procedures: be controlled around the leakage area by roping off, etc. Environmental precautions: Prevent product from entering drains. Methods and materials for Sweep dust to collect it into an airtight container, taking care not to disperse it. containment and cleaning Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent dispersion of dust. Wash hands and face thoroughly after handling.

Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing. Conditions for safe storage, including any

### Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool and dark place.

Store under inert gas.

Protect from moisture.

Store locked up.

Store away from incompatible materials such as oxidizing agents.

Hygroscopic Packaging material: Comply with laws.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

### Personal protective equipment

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator,

etc. Use respirators approved under appropriate government standards and follow

local and national regulations. Hand protection: Impervious gloves. Eye protection: Safety goggles. A face-shield, if the situation requires. Skin and body protection: Impervious protective clothing.

Protective boots, if the situation requires.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid  
Form: Crystal- Powder  
Colour: White  
Odour: Odorless  
pH: No data available  
Melting point/freezing point: No data available  
Boiling point/range: No data available  
Flash point: No data available  
Flammability or explosive  
limits:  
Lower: No data available  
Upper: No data available  
Vapour pressure: <0.01kPa/20°C  
Relative density: No data available  
Solubility(ies):  
[Water] Soluble (30g/100mL, 20°C)  
[Other solvents]  
Soluble: Alcohols, Glycerol  
Slightly soluble: Ether  
Insoluble: Acetone

## 10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.  
Possibility of hazardous No special reactivity has been reported.  
reactions:  
Incompatible materials: Oxidizing agents  
Hazardous decomposition Sulfur oxides, Magnesium oxides  
products:

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: orl-rbt LDLo:3 g/kg  
scu-mus LD50:645 mg/kg  
ipr-mus LD50:150 mg/kg  
ivn-hmn LDLo:10.5 mg/kg  
ivn-wmn LDLo:80 mg/kg/2M-I  
Skin corrosion/irritation: No data available  
Serious eye No data available  
damage/irritation:  
Germ cell mutagenicity: pic-esc 800 umol/L  
mrc-esc 5 pph  
Carcinogenicity:  
IARC = No data available  
NTP = No data available  
Reproductive toxicity: No data available  
RTECS Number: OM4500000

## 12. ECOLOGICAL INFORMATION

Ecotoxicity:  
Fish: 48h LC50:>1000 mg/L (*Oryzias latipes*)  
Crustacea: 48h EC50:343.56 mg/L (*Daphnia magna*)  
Algae: No data available  
Persistence / degradability: No data available  
Bioaccumulative No data available  
potential(BCF):  
Mobility in soil  
Log Pow: No data available  
Soil adsorption (Koc): No data available

Henry's Law No data available  
constant(PaM<sup>3</sup>/mol):

### 13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

### 14. TRANSPORT INFORMATION

Hazards Class: Does not correspond to the classification standard of the United Nations UN-No: Not listed

### 15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

### 16. OTHER INFORMATION

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.