

# MATERIAL SAFETY DATA SHEET

## Magnesium Sulphate Heptahydrate

Date: JUL,30,2025

### Section 1 - Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: Magnesium sulphate heptahydrate

#### 1.2 Other names

Epsom Salt

#### 1.3 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Raw material for industry and fertilizer

#### 1.4 Details of the supplier of the safety data sheet

Company: LAIZHOU LONGPENG CHEMICAL CO., LTD  
NO.236 KAIMING ROAD, LAIZHOU CITY, SHANDONG, CHINA  
Tel: +86-535-2281528  
Fax: +86-535-2281528

#### 1.5 Emergency telephone number

Tel: +86-13655351991

### Section 2 - Hazard Identification

#### 2.1 Classification of the substance or mixture

Classification(67/548/EEC,1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.

Labelling according to EC Directives (67/548/EEC)

Further information: The product does not need to be labeled in accordance with EC directives or respective national laws.

#### 2.3 Other hazards

This substance is not considered to be persistent, bioaccumulating nor toxic(PBT).

This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Contact with hot product will cause thermal burns.

React with water under strong development of heat.

### Section 3 - Composition/Information on Ingredients

#### 3.1 Substances

Chemical Name:	Magnesium Sulphate heptahydrate (MgSO <sub>4</sub> . 7H <sub>2</sub> O)
CAS No.:	10034-99-8
EINECS No./ELINCS No.:	231-298-2
Concentration:	>99.5%

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### Section 4 - First Aid Measures

#### 4.1 Description of first aid measures

General advice: Get medical attention if symptoms occur. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air.

In case of skin contact: Wash off with plenty of water.

In case of eye contact: Immediately flush eyes with plenty of water. Obtain medical attention.

If swallowed: Clean mouth with water and drink afterwards plenty of water.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Ingestion may provoke the following symptoms: Diarrhoea.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment: For specialist advice physicians should contact the Poisons Information Service.

### Section 5 - Fire Fighting Measures

#### 5.1 Extinguishing media

Suitable extinguishing media: The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### 5.2 Special hazard arising from the substance or mixture

Specific hazards during firefighting: Heating or fire can release toxic gas.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters: Respiratory protection

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

### Section 6 - Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid breathing dust.

#### 6.2 Environmental precautions

Environmental precautions: Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

#### 6.4 Reference to other sections

For personal protection see section 8.

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### Section 7 - Handling and Storage

#### 7.1 Precautions for safe handling

Advice on safe handling: Avoid dust formation. Avoid inhalation, ingestion and contact with skin and eyes.

Advice on protection against fire and explosion: The product is not flammable. No special protective measures against fire required.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep in a dry place.

Advice on common storage: No special restrictions on storage with other products.

Other data: Stable under recommended storage conditions.

#### 7.3 Specific end use(s): Not relevant

### Section 8 - Exposure Controls/Personal Protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Respiratory protection: Effective dust mask.

Hand protection: not required under normal use. When handling hot material, use heat resistant gloves.

Eye protection: Safety glasses

Skin and body protection: Long sleeved clothing. Wear suitable protective clothing. Preventive skin protection.

Hygiene measures: When using do not eat or drink. Wash hands before breaks and at the end of workday.

Protective measures: Do not breathe dust. When working with hot material, avoid contact with skin.

Environmental exposure controls

General advice : Do not let product enter drains.

### Section 9 - Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties

Appearance: white crystalline

Odour: Odourless

pH: ca.6.5, 25°C, Aqueous solution

Melting point/freezing point: 770 °C

Initial boiling point and boiling range: no data available

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Flash point: no data available  
Evaporation rate: no data available  
Flammability (solid, gas): Not Flammable  
Upper/lower flammability or explosive limits: no data available  
Vapour pressure: no data available  
Vapour density: no data available  
Relative density: 1,7 g/cm<sup>3</sup>, 20 °C  
Water Solubility: MgSO<sub>4</sub>, 342 g/l, 20 °C  
Partition coefficient: n-octanol/water: no data available  
Auto-ignition temperature: no data available  
Decomposition temperature: no data available  
Viscosity: no data available  
Explosive properties: no data available  
Oxidising properties: no data available

### Section 10 - Stability and Reactivity

#### 10.1 Reactivity

Stable

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions: No dangerous reaction known under conditions of normal use.

#### 10.4 Conditions to avoid

Conditions to avoid: None known.

#### 10.5 Incompatible materials

Materials to avoid: None known.

#### 10.6 Hazardous decomposition products

Hazardous decomposition products: No decomposition if stored and applied as directed.

Heating or fire can release toxic gas. Sulphur oxides.

### Section 11- Toxicological Information

#### 11.1 Information on toxicological effects

Product

Acute oral toxicity:

LD50:>2.000mg/kg, rat, OECD 425, Information given is based on data obtained from similar substances.

Acute inhalation toxicity: no data available

Acute dermal toxicity:

>2.000mg/kg, rat, OECD Test Guideline 402, Information given is based on data obtained from similar substances.

Skin corrosion/irritation:

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Result: No skin irritation, EU Method B.46, Information given is based on data obtained from similar substances.

Serious eye damage/eye irritation:

rabbit, Result: No eye irritation, OECD Test Guideline 405, Information given is based on data obtained from similar substances.

Respiratory or skin sensitisation:

mouse, Result: Does not cause skin sensitization, OECD Guideline 429, anhydrous substance.

Genotoxicity in vitro:

Result : negative, OECD 476, anhydrous substance.

Genotoxicity in vivo: no data available.

Carcinogenicity:

This information is not available. According to experience not expected.

Reproductive toxicity:

rat, NOAEL:  $\geq 1.500$  mg/kg, OECD Guideline 422, Information given is based on data obtained from similar substances. Assessment: Animal testing did not show any effects on fertility.

Teratogenicity:

rat, NOAEL:  $\geq 1.500$  mg/kg, OECD Guideline 422, Information given is based on data obtained from similar substances. Assessment: Did not show mutagenic or teratogenic effects in animal experiments.

STOT – repeated exposure:

rat, NOAEL:  $\geq 256$  mg/kg, OECD Guideline 453, Information given is based on data obtained from similar substances.

Further information: The product contains no substances classified as hazardous to health in concentrations which should be taken into account. Health injuries are not known or expected under normal use.

### Section 12- Ecological Information

#### 12.1 Toxicity

Product:

Toxicity to fish: LC50: 680 mg/l, 96h, Pimephales promelas (fathead minnow), Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates: LC50: 720 mg/l, 48h, Information given is based on data obtained from similar substances.

Toxicity to algae: EC50: 2.700 mg/l, 18d, Chlorella vulgaris (fresh water algae), Information given is based on data obtained from similar substances.

Toxicity to bacteria: EC50: 84 mg/l, 0.5h, Photobacterium phosphoreum

#### 12.2 Persistence and degradability

Product:

Biodegradability: not applicable

#### 12.3 Bioaccumulative potential

Product:

Bioaccumulation: not applicable

#### 12.4 Mobility in soil

Product:

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Physico-chemical removability :not applicable

### 12.5 Results of PBT and vPvB assessment

Product:

Assessment: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating(vPvB).

### 12.6 Other adverse effects

Product:

Adsorbed organic bound halogens(AOX): not applicable

## Section 13- Disposal Consideration

### 13.1 Waste treatment methods

Product:Check if agriculture use is possible.

Contaminated packaging: Contaminated packaging should be emptied as far as possible, then it can be passed on for recycling after being thoroughly cleaned.

## Section 14-Transport Information

### 14.1 Land transport

ADR

Remarks :Not a dangerous substance as defined in the above regulations.

Tunnel restriction code: Not relevant.

### 14.2 Sea transport

IMDG

Remarks: Not classified as dangerous in the meaning of transport regulations.

### 14.3 Air transport

IATA-DGR

Remarks: Not classified as dangerous in the meaning of transport regulations.

### 14.4 Special precautions for user

Not relevant

## Section 15-Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water contaminating class : WGK 1 slightly water endangering

Notification status: This substance is exempt from registration according to Regulation (EC) No. 1907/2006(REACH)

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

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### Section 16-Other Information

16.1 The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling , use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to be the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.