

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name	Magnesium Sulfate Heptahydrate
CAS number	10034-99-8
Synonyms	Magnesium Sulfate Crystals, Epsom Salts

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

Identified uses	Laboratory chemicals
-----------------	----------------------

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

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Based on available criteria, the classification criteria are not met.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram	Not applicable
Signal Word	None required

Hazard statements      None required

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

No information available

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Magnesium Sulfate Heptahydrate	Magnesium Sulfate Crystals, Epsom Salts	10034-99-8	> 99%
Magnesium sulfate	-	7487-88-9	-

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

<b>General advice</b>	No information available
<b>If inhaled</b>	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
<b>In case of skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if symptoms occur.
<b>In case of eye contact</b>	Rinse immediately with plenty of water, especially under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.
<b>If swallowed</b>	Do not induce vomiting. Obtain medical attention.

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

No information available

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

Note to physician: treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**      Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

**Unsuitable extinguishing media**      No information available

### 5.2 Specific hazards arising from the substance or mixture

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes

### **5.3 Special protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### **5.4 Further information**

Hazardous combustion products: Sulfur oxides, Magnesium oxides.

## **SECTION 6: Accidental release measures**

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

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

### **6.2 Environmental precautions**

Avoid release to the environment. See Section 12 for additional ecological information.

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

Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal.

### **6.4 Reference to other sections**

Not applicable

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Precautions on safe handling**

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin and eyes. Do not breathe dust.

#### **Hygiene measures**

No information available

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

#### **Storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place.

#### **Incompatibilities**

Strong bases

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Occupational exposure limits

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

## 8.2 Exposure controls

### Appropriate engineering controls

None under normal use conditions.

### Personal protective equipment

#### Eye/face protection

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 protection

Wear appropriate protective gloves to prevent skin exposure

#### Body Protection

Wear appropriate protective clothes to prevent skin exposure.

#### Respiratory protection

No protective equipment needed under normal use conditions.

#### Control of environmental exposure

No information available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	5-8.2 5% aq. sol.
Melting Point/Range	1124°C
Boiling Point/Range	No information available
Evaporation Rate	No information available
Flammability (solid)	No information available
Flammability or explosive limit	No information available
Vapor Pressure	<0.1 mmHg @ 20°C
Vapor Density	No information available
Density	1.678
Solubility	No information available
Partition coefficient; n-octanol/water	No information available

Autoignition Temp	No information available
Decomposition Temp	> 150°C
Viscosity	No information available
Molecular Formula	Mg O4 S . 7 H2 O
Molecular Weight	246.48
VOC Content(%)	No information available
Oxidizing properties	No information available

## 9.2 Other safety information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal processing conditions.

### 10.2 Chemical stability

Stable under normal conditions. Hygroscopic.

### 10.3 Possibility of hazardous reactions

None known, based on information available.

### 10.4 Conditions to avoid

Avoid dust formation. Excess heat. Exposure to moist air or water.

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

Sulfur oxides, Magnesium oxides.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

#### Acute toxicity

Oral LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg
Dermal LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg
Mist LD50	Based on ATE data, the classification criteria are not met. ATE > 5 mg/kg

#### Skin corrosion/irritation

No information available

#### Serious eye damage/eye irritation

No information available

**Respiratory or skin sensitization**

No information available

**Germ cell mutagenicity**

No information available

**Carcinogenicity**

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Magnesium Sulfate Heptahydrate	10034-99-8	Not listed	Not listed	Not listed	Not listed	Not listed
Magnesium Sulfate	7487-88-9	Not listed	Not listed	Not listed	Not listed	Not listed

**Specific target organ toxicity - single exposure**

None known.

**Specific target organ toxicity - repeated exposure**

None known.

**Reproductive toxicity**

No information available

**Chronic effects**

No information available

**11.2 Additional Information**

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

## SECTION 12: Ecological information

**12.1 Toxicity**

Do not empty into drains.

**12.2 Persistence and degradability**

No information available

**12.3 Bio accumulative potential**

No information available

**12.4 Mobility in soil**

No information available

**12.5 Results of PBT and vPvB assessment**

No information available

## 12.6 Endocrine disrupting properties

No information available

## 12.7 Other adverse effects

Product		Species	Test Results
Magnesium Sulfate	EC50	Freshwater Algae	2700 mg/l - 72h
	LC50	Freshwater Fish	2610-3080 mg/l - 96 h 19000 mg/l - 24h
	EC50	Microtox (Photobacterium phosphoreum)	84000 mg/l - 30min
	EC50	Water Flea	1700 mg/l - 24h

## SECTION 13: Disposal considerations

### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14: Transport information

**DOT (US)** Not listed

**IMDG** Not listed

**IATA** Not listed

## SECTION 15: Regulatory information

**US federal regulations** This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Magnesium Sulfate Heptahydrate: Not listed.

Magnesium Sulfate: Listed.

### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not applicable.

### **SARA 304 Emergency release notification**

Not regulated.

### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not regulated.

### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous**

Not applicable.

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act**

Not regulated

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed

**Food and Drug Administration (FDA)**

Not regulated

**US state regulations**

**US. Massachusetts RTK - Substance List**

Not listed

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed

**US. Rhode Island RTK**

Not listed

**California Proposition 65**

Not listed

**SECTION 16: Other information**

Revision date: 06/07/2024

Revision number: 0

**SECTION 17: Disclaimer**



The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.