

## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name Magnesium sulfate crystal  
CAS number 10034-99-8  
Synonyms Magnesium sulfate heptahydrate, epsom salt.

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

Identified uses Laboratory chemicals, personal care.

#### 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)

This product is not categorized as hazardous in any GHS hazard class.

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

Pictogram None.  
Signal Word None.

Hazard statements No information available.

### 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, epsom salt	10034-99-8	> 99%
Magnesium sulfate	-	7487-88-9	-

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

**If inhaled** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.

**In case of skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if symptoms occur.

**In case of eye contact** Rinse immediately with plenty of water, especially under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

**If swallowed** 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

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. Hazardous combustion products: sulfur oxides, magnesium oxides.

### 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

**Flash Point** No information available.

**Autoignition Temperature** No information available.

#### Explosion limits

**Upper** No information available.

**Lower** No information available.

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

#### NFPA

Health	Flammability	Instability	Physical hazards
0	0	0	N/A

## 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.

#### Biological occupational exposure limits

No information available.

### 8.2 Exposure controls

#### Appropriate engineering controls

No specific controls are needed. Normal room ventilation is adequate.

#### 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 and body protection

Wear appropriate protective gloves to prevent skin exposure. 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	
Upper	No information available.
Lower	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	MgSO4-7H2O
Molecular Weight	246.48
VOC Content(%)	No information available.
Oxidizing properties	No information available.

## 9.2 Other safety information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions of use and storage.

### 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

Not applicable.

#### Skin corrosion/irritation

Not applicable.

#### Serious eye damage/eye irritation

Not applicable.

#### Respiratory or skin sensitization

Not applicable.

#### Germ cell mutagenicity

Not applicable.

#### 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

Not applicable.

#### Specific target organ toxicity - repeated exposure

Not applicable.

#### Reproductive toxicity

Not applicable.

#### Chronic effects

Not applicable.

## 11.2 Additional Information

Not applicable.

## SECTION 12: Ecological information

### 12.1 Toxicity

Do not empty into drains.

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

### 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

No information available.

## 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 regulated.

#### IMDG

Not regulated.

#### IATA

Not regulated.

## SECTION 15: Regulatory information

**US federal regulations** This product is 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)**  
Listed (MAGNESIUM SULFATE): Present.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Not listed.

**SARA 304 Emergency release notification**  
Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**  
Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**  
**SARA 302 Extremely hazardous substance**  
Not listed.

**SARA 311/312 Hazardous**  
Not listed.

**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

**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

**California Proposition 65**  
Not listed



## **SECTION 16: Other information**

Issue date: 08/06/2020  
Revision 1: 08/07/2024

## **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.