



# Safety Data Sheet

Issue Date: 02/17/2015

Revision Date: 08/19/2024

Version 5

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

### 1.1 Product Identifier:

Product Name: Epsom Salt, Magnesium Sulfate Technical  
Product Code:  
Synonyms: Magnesium Sulfate Heptahydrate

### 1.2 Recommended use of the chemical and restrictions on use:

Recommended use: Technical grade: For industrial use, for correcting magnesium deficiency in crops and for use in animal feed.  
Uses advised against: No information available

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

Company: Premier Magnesia, LLC  
Address: 75 Giles Place, Waynesville, NC 28786  
Phone Number: 828-452-4784

### 1.4 Emergency telephone number:

24 Hour Emergency telephone number: Chemtrec 1-800-424-9300

## SECTION 2. Hazard(s) identification

2.1 Classification: GHS: Not classified EC: Not classified

2.2 Label elements: Not Applicable

2.3 Hazards summary: Spillages may be slippery. Dust may cause mild eye irritation. Ingestion may cause abdominal cramps and diarrhea.

## SECTION 3. Composition / information on ingredients

Chemical Name	CAS Number	Weight %	Trade Secret
Magnesium Sulfate Heptahydrate	10034-99-8	100	

## SECTION 4. First aid measures

4.1 Eye contact: Rinse immediately with lots of water, also under the eyelids for at least 15 minutes. Seek medical attention if irritation persists.

4.2 Skin contact: If irritation develops, seek medical attention.

4.3 Inhalation: Remove to fresh air. Administer oxygen if breathing is difficult. If breathing has stopped, give artificial respiration. Get medical attention immediately.

4.4 Ingestion: If large quantities of this material are swallowed, call a Physician immediately. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

# Safety Data Sheet

Version 5

4.5 Note to physicians:

Treat symptomatically.

## 5. Fire-fighting measures

5.1 Suitable extinguishing media:

This material is compatible with all extinguishing media and standard firefighting techniques.

5.2 Unsuitable extinguishing media:

None.

5.3 Specific hazards arising from chemical:

Oxides of sulfur may be generated during fire. Noncombustible.

5.4 Protective equipment and precautions for firefighters: As in any fire, use self-contained breathing apparatus and suitable protective clothing.

## SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures:

Personal precautions:

Wear goggles. If inhalation exposure potential is above local exposure limits, use appropriate respiratory protection, in accordance with prevailing regulatory requirements.

6.2 Environmental precautions:

Environmental precautions:

Sinks and mixes with water. No adverse effects known.

6.3 Methods and material for containment and cleaning up:

Methods for containment:

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up:

Sweep, scoop, or vacuum discharged material. Flush residue water.

## SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

Avoid generating dust. Promptly clean up spills.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions:

Keep containers closed and protected from extremes of temperature and humidity during storage. Material is not affected by impact.

Incompatible Materials:

Metal hydrides and other water reactive materials.

## SECTION 8. Exposure controls / personal protection

8.1 Control parameters

Exposure Guidelines:

ACGIH: Particulate not otherwise classified. TLV Inhalable: 10 mg/m<sup>3</sup>. TLV Respirable: 3 mg/m<sup>3</sup>. OSHA: PEL Total: 15 mg/m<sup>3</sup> Respirable: 5 mg/m<sup>3</sup>

8.2 Appropriate engineering controls

Engineering Controls:

Ensure adequate ventilation. Ensure eye washes and safety showers are available.

# Safety Data Sheet

Version 5

## 8.3 Individual protection measures, such as personal protective equipment

Eye/face protection:	Wear safety glasses or chemical goggles.
Skin and body protection:	Wear gloves if abrasion or irritation occurs.
Respiratory protection:	Avoid inhalation of dust. Use suitable respiratory protection in accordance with requirements of 29 CFR 1910. 134, based on the level of exposure incurred.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Solid
Appearance:	Granular to fine granular
Color:	White or transparent
Odor:	None
Odor threshold:	No information available
pH:	Approx. 6-7 at 5% w/w in water
Melting point/freezing point:	Melting point >1000°C
Boiling point/boiling range:	Not applicable
Flash point:	Not applicable
Evaporation point:	Not applicable
Flammability (solid, gas)	Not applicable
Flammability Limit in Air:	
Upper flammability limit:	Not applicable
Lower flammability limit:	Not applicable
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Specific gravity:	1.76g/cm <sup>3</sup>
Water solubility:	71g/100ml at 20°C / 91g/100ml at 40°C
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

### 9.2 Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	55-58 lb/ft <sup>3</sup>

## SECTION 10. Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under normal processing
10.3 Possibility of hazardous reactions	None under normal processing
10.4 Conditions to avoid	Extremes of temperature and direct light
10.5 Incompatible materials	Metal hydrides and other water reactive materials

# Safety Data Sheet

Version 5

## 10.6 Hazardous Decomposition Products

At very high temperatures, magnesium oxide, sulfur dioxide and sulfur trioxide may be generated

## SECTION 11. Toxicological information

### 11.1 Information on likely routes of exposure

Product information	No data available
Inhalation	No data available
Eye contact	Dust may be irritating to eyes
Skin contact	No data available
Ingestion	RTECS: Oral LDLo 428mg/kg in man; 351mg/kg in woman

### 11.2 Information on toxicological effects

Symptoms	No information available
----------	--------------------------

### 11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	Not listed by IARC, NTP, or OSHA
Reproductive toxicity	No information available
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified
Aspiration hazard	No information available

## SECTION 12. Ecological information

12.1 Ecotoxicity Not classified as PBT vPvB

12.2 Persistence and degradability No information available

12.3 Bioaccumulation Material does not bioaccumulate

12.4 Mobility Sinks and mixes with water

12.5 Other adverse effects No information available

## SECTION 13. Disposal considerations

### 13.1 Waste treatment methods

Disposal of wastes:	This product does not exhibit any characteristics of a hazardous waste. Follow all applicable federal, state, and local regulations for the safe disposal.
Contaminated packaging:	Do not reuse container.

## SECTION 14. Transport information

14.1 DOT Not regulated by DOT as a hazardous material. No hazard class, label, or placard required. no UN or NA number assigned.

14.2 IMDG

14.3 IATA

## SECTION 15. Regulatory information

### 15.1 International Inventories

TSCA	Listed as magnesium sulfate
DSL/NDSL	Listed
EINECS/ELINCS	231-298-2
ENCS	Listed
IECSC	Listed
KECL	Listed
PICCS	Listed
AICS	Listed

### 15.2 Legend

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	Japan Existing and New Chemical Substances
IECSC	China Inventory of Existing Chemical Substances
KECL	Korean Existing and Evaluated Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances.
AICS	Australian Inventory of Chemical Substances

### 15.3 US Federal Regulations

**SARA 313:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories:** HNOC - ingestion may cause gastrointestinal upset.

**CERCLA:** This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### 15.4 US State Regulations

**California Proposition 65:** This product does not require a Proposition 65 warning statement.

**U.S. EPA Label Information:** EPA Pesticide Registration Number- Not Applicable

## SECTION 16. Other information

NFPA	Health hazards	1	Flammability	0	Instability	0	Specific hazards
HMIS	Health hazards	1	Flammability	0	Physical hazards	0	Personal protection X

Issue Date: 02/17/2015

Revision Date: 08/19/2024

Revision Note: Version 5

# Safety Data Sheet

Version 5

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of my 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 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.

End of Safety Data Sheet