

# SAFETY DATA SHEET



Issue Date 17-February 2015  
Revision Date 08-March 2021  
Version 4

## SECTION 1: Identification

### Product identifier

**Product Name** Epsom Salt, Magnesium Sulfate

### Other means of identification

**Product Code** Epsom Salt, Magnesium Sulfate,  
**Synonyms** Magnesium Sulfate Heptahydrate

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

**Recommended Use**  
**Uses advised against** No information available

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

Giles Chemical, a Division of Premier Magnesia, LLC, 75 Giles Place, Waynesville, NC 28786

### Emergency telephone number

**Company Phone Number** 828-452-4784  
**24 Hour Emergency Phone Number** Chemtrec 1-800-424-9300  
**Emergency Telephone** Chemtrec 1-800-424-9300

## SECTION 2. Hazard(s) identification

**Classification** GHS: Not classified EC: Not classified

**Label elements** Not Applicable

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

**Synonyms** Magnesium sulfate heptahydrate, Epsom salts

Chemical Name	CAS No.	Weight-%	Trade Secret
Magnesium sulfate heptahydrate	10034-99-8	100	

## SECTION 4. First aid measures

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

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

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

**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.

**Note to physicians** Treat symptomatically.

## 5. Fire-fighting measures

**Suitable extinguishing media**

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

**Unsuitable extinguishing media**            None.

**Specific hazards arising from the chemical**

Oxides of sulfur may be generated during fire. Noncombustible

**Protective equipment and precautions for firefighters**

As in any fire, use self-contained breathing apparatus and suitable protective clothing.

**SECTION 6. Accidental release measures****Personal precautions, protective equipment, and emergency procedures**

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

**Environmental precautions**

**Environmental precautions**            Sinks and mixes with water. No adverse effects known.

**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 with water.

**SECTION 7. Handling and storage****Precautions for safe handling**

**Advice on safe handling**            Avoid generating dust. Promptly clean up spills. Material

**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****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: 15mg/m<sup>3</sup> Respirable: 5 mg/m<sup>3</sup>

**Appropriate engineering controls**

**Engineering Controls**            Ensure adequate ventilation. Ensure eye washes and safety showers are available.

**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.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid	<b>Odor</b>	None
<b>Appearance</b>	Granular to fine granular	<b>Odor threshold</b>	No information available
<b>Color</b>	White or transparent		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Ph</b>	Approx. 6-7 at 5% w/w in water	
<b>Melting point/freezing point</b>	Melting point> 1000C	
<b>Boiling point / boiling range</b>	Not applicable	
<b>Flash point</b>	Not applicable	
<b>Evaporation rate</b>	Not applicable	
<b>Flammability (solid, gas)</b>	Not applicable	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	No information available	
<b>Lower flammability limit:</b>	No information available	
<b>Vapor pressure</b>	Not applicable	
<b>Vapor density</b>	Not applicable	
<b>Specific Gravity</b>	1.76g/cm <sup>3</sup>	
<b>Water solubility</b>	71g/100ml at 20° C 91g/100ml at 40° C	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Kinematic viscosity</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	

### Other Information

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

## SECTION 10. Stability and reactivity

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Extremes of temperature and direct sunlight.

### Incompatible materials

Metal hydrides and other water reactive materials.

### Hazardous Decomposition Products

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

## SECTION 11. Toxicological information

### Information on likely routes of exposure

<b>Product Information</b>	No data available
<b>Inhalation</b>	No data available.
<b>Eye contact</b>	Dust may be irritating to eyes
<b>Skin Contact</b>	No data available.
<b>Ingestion</b>	RTECS: Oral LDlo 428mg/kg in man; 351 mg/kg in woman

**Information on toxicological effects**

**Symptoms** No information available.

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

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

**SECTION 12. Ecological information**

**Ecotoxicity** Not classified as PBT vPvB

**Persistence and degradability**  
No information available.

**Bioaccumulation**  
Material does not bioaccumulate.

**Mobility**  
Sinks and mixes with water.

**Other adverse effects** No information available

**SECTION 13. Disposal considerations****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 safe disposal.

**Contaminated packaging** Do not reuse container.

**SECTION 14. Transport information**

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

**SECTION 15. Regulatory information****International Inventories**

<b>TSCA</b>	Listed as magnesium sulfate
<b>DSL/NDSL</b>	Listed
<b>EINECS/ELINCS</b>	231-298-2
<b>ENCS</b>	Listed
<b>IECSC</b>	Listed

KECL	Listed
PICCS	Listed
AICS	Listed

**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

**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

**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**

<b><u>NFPA</u></b>	Health hazards 1	Flammability 0	Instability 0	Specific hazards
<b><u>HMIS</u></b>	Health hazards 1	Flammability 0	Physical hazards 0	Personal protection X

Issue Date 17-February 2019  
Revision Date 08 -March 2021  
Revision Note **Format update**

**Disclaimer**

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 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**