



# SAFETY DATA SHEET

Issue Date 17-February 2015  
Revision Date 20-August 2020  
Version 3

## SECTION 1: Identification

### Product identifier

Product Name Magnesium Sulfate Solution 20-27%

### Other means of identification

Product Code Magnesium Sulfate  
Synonyms Magnesium Sulfate Solution 20-27%

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

Recommended Use Commercial/ Industrial use  
Uses advised against No information available

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

#### Manufacturer Address

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 Chemtrec 1-800-424-9300  
Number  
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. Splashes or mists 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	10034-99-8	20-27	
Water	7732-18-5	73-80	

## 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.

**Environmental precautions**

**Environmental precautions**        Prevent release to waterways and storm water drains

**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**            Scoop or vacuum discharged material. Use sorbent clay, vermiculite or straw to absorb liquid.

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

**Advice on safe handling**            Promptly clean up spills.

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

**Storage Conditions**                Keep containers closed and protected from extremes of temperature.

**Incompatible materials**            Metal hydrides and other water reactive materials.

**SECTION 8. Exposure controls / personal protection****Control parameters**

**Exposure Guidelines**                None listed

**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.

**Respiratory protection**

**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>	Liquid	<b>Odor</b>	None
<b>Appearance</b>	Liquid	<b>Odor threshold</b>	No information available
<b>Color</b>	Clear liquid		

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>Ph</b>	Approx. 8.5	
<b>Melting point/freezing point</b>	Not applicable	
<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>	No information available.	
<b>Water solubility</b>	Soluble	
<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>	Not applicable

**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
----------------------------	-------------------

Inhalation	No data available.
Eye contact	Splashes or mists may be irritating to eyes
Skin Contact	No data available.
Ingestion	RTECS: Oral LD <sub>50</sub> 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
<b>DSL/NDL</b>	Listed
<b>EINECS/ELINCS</b>	231-298-2
<b>ENCS</b>	Listed
<b>IECSC</b>	Listed
<b>KECL</b>	Listed
<b>PICCS</b>	Listed
<b>AICS</b>	Listed

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - 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 warning for California Proposition 65.

**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

<b>Issue Date</b>	17-February 2019
<b>Revision Date</b>	20- August 2020
<b>Revision Note</b>	Update Prop 65

**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**