



# SAFETY DATA SHEET

Issue Date 7 January 2020

Revision Date 7 January, 2020

Version 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name Magnesium Sulfate

### Other means of identification

Product Code Magnesium Sulfate  
Synonyms Magnesium Sulfate Monohydrate

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

Recommended Use Agriculture.  
Uses advised against No information available

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

#### Manufacturer Address

Chemurgic Agricultural Chemicals, Inc. P.O. Box 2106  
Turlock CA 95381

### Emergency telephone number

Company Phone Number 209-634-2951  
24 Hour Emergency Phone Number 209-652-7260  
Emergency Telephone INFOTRAC 1-800-535-5053

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

White or transparent crystalline odorless powder. Noncombustable. At very high temperatures, magnesium oxide, sulfur dioxide and sulfur trioxide may be generated. No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen.

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

#### **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health

<b>Appearance</b>	Granular to fine granular	<b>Physical state</b>	Solid	<b>Odor</b>	None
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Causes mild irritation to the eyes  
No known adverse effects.  
Causes nausea, vomiting, abdominal cramps and diarrhea.  
Spilled material can be slippery.

### Hazards not otherwise classified (HNOC)

#### Other Information

Unknown Acute Toxicity 100% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Synonyms** Magnesium sulfate, monohydrate

Chemical Name	CAS No.	Weight-%	Trade Secret
magnesium sulfate, monohydrate	14168-73-1	100	

**4. FIRST AID MEASURES****First aid measures**

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. (Call a physician if irritation persists).

**Skin Contact** Not Applicable.

**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.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

This material is compatible with all extinguishing media.

**Unsuitable extinguishing media** None.

**Specific hazards arising from the chemical**

See Section 2 for information on hazards when this material is present in the area of a fire.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**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.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Wear goggles. See Section 8.

**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.

**Prevention of secondary hazards** For large spill cleanup: Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Sweep, scoop or vacuum discharged material. Flush residue with water. Observe environmental regulations.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

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

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

**Storage Conditions** Keep containers closed and protected from extremes of temperature and humidity during storage. Recommended storage conditions 68-110°F and 54-87% relative humidity.

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear chemical goggles.

**Skin and body protection** Wear gloves if abrasion or irritation occurs.

**Respiratory protection** Provide workers with NIOSH approved respirators in accordance with requirements of 29 CFR 1910. 134 for level of exposure incurred.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

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

**Values**  
Approx. 6-7

**Remarks • Method**

Melting point/freezing point	No information available
Boiling point / boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
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

**Other Information**

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	60-70 lb/ft <sup>3</sup>

**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.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Product Information	No data available
Inhalation	No data available.
Eye contact	Irritating to eyes.

**Skin Contact** No data available.

**Ingestion** No data available.

#### **Information on toxicological effects**

**Symptoms** No information available.

#### **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** No information available.  
**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

#### **Numerical measures of toxicity - Product Information**

**Unknown Acute Toxicity** 100% of the mixture consists of ingredient(s) of unknown toxicity

### **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

This material is not persistent in aquatic systems.

#### **Persistence and degradability**

No information available.

#### **Bioaccumulation**

Material does not bioaccumulate.

#### **Mobility**

Sinks and mixes with water.

**Other adverse effects** No information available

### **13. DISPOSAL CONSIDERATIONS**

#### **Waste treatment methods**

**Disposal of wastes** This product does not exhibit any characteristics of a hazardous waste. The product is suitable for landfill disposal. Follow all applicable federal, state and local regulations for safe disposal.

**Contaminated packaging** Do not reuse container.

### **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.

**15. REGULATORY INFORMATION****International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Does not comply
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Does not comply
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**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**

<b>Acute health hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**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 contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

None

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

**16. OTHER INFORMATION**

<u>NFPA</u>	Health hazards	1	Flammability	0	Instability	0	Physical and Chemical Properties	-
<u>HMIS</u>	Health hazards	1	Flammability	0	Physical hazards	0	Personal protection	X

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Revision Note

No information available

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**