

# Material Safety Data Sheet

## AG Specialties Brand Magnesium Sulfate

### Section 1 – Product and Company Identification

Product Name: Magnesium Sulfate  
Trade Names: AG SPECIALTIES BRAND MAGNESIUM SULFATE  
Synonyms: Magnesium sulfate heptahydrate, Epsom Salts, Magnesium Sulfate  
MSDS Creation Date: July 2000  
MSDS Current revision date: None  
Distributed by: AG Specialties LLC; 12220 SW Grant Ave; Tigard, OR 97223; 877-601-7670  
EMERGENCY: CHEMTREC (24 Hour Emergency Response) 1-800-424-9300

### Section 2 – Composition / Information on Ingredients

Ingredient Name	CAS Number	%wt
Magnesium Sulfate Heptahydrate	10034-99-8	100

### Section 3 – Hazards Identification

**Emergency overview:** At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated.

**NFPA Rating:** Health=1, Fire=0, Reactivity=0

**Potential Health Effects:**

*Inhalation:* May cause nausea, vomiting, abdominal cramps, and diarrhea.

*Skin Contact:* No known adverse effects.

*Eye Contact:* No known adverse effects.

*Ingestion:* Causes nausea, vomiting, abdominal cramps, and diarrhea. 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.

*Long-Term and/or delayed effects:* No data available.

**CARCINOGEN STATUS:** OSHA: Not listed    NTP: Not listed    IARC: Not listed

### Section 4 – First aid Measures

*Inhalation:* Remove from exposure area to fresh air immediately.

*Skin Contact:* Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent and rinse with water until no evidence of product remains.

*Eye Contact:* Flush eyes immediately with large amounts of water or normal saline solution, occasionally lifting upper and lower lids until no evidence of product remains (approximately 15-20 minutes).

*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 PHYSICIAN:** No data available.

## Section 5 – Fire-Fighting Measures

*Flash Point:* None

*Auto Ignition Temperature:* Not Determined

*Fire and Explosion Hazard:* N/A

*Extinguishing Media:* Use any standard agent suitable for surrounding structural fire or for other chemicals that may be involved.

*Firefighting:* Wear appropriate self-contained positive pressure breathing apparatus. Dike area to prevent runoff and contamination of water sources.

*Hazardous Combustion Products:* N/A

## Section 6 – Accidental Release Measures

*In Case of Spill:* Pick up dry spills by scooping, shoveling or vacuuming and place into containers for reuse or disposal.

Wear respirator, protective clothing and gloves. Keep unnecessary people away. Obey all federal, state, and local regulations when storing or disposing.

## Section 7 – Handling and Storage

*Storage:* Protect from extreme temperatures and humidity.

*Normal Handling:* Avoid contact with skin and eyes. Promptly clean up spills.

## Section 8 – Exposure Controls / Personal Protection

### Exposure Limits

Ingredient	OSHA PEL	ACGIH TLV	OTHER VALUES
No ingredients	-----	-----	-----

\*= ACGIH Biological Exposure Value

\*\*= AIHA Workplace Environmental Exposure Level

*Ventilation:* Use of local exhaust is recommended at product transfer points and where dusty conditions exist.

*Eye Protection:* Wear safety glasses. Use of splash shields or safety goggles is recommended for very dusty conditions.

*Clothing:* Wear trousers and long sleeved shirt to avoid skin contact with this product. Clean work clothing before taking them home (preferred) or launder separately from household laundry.

*Gloves:* Wear cotton or canvas protective gloves to prevent contact with this product.

*Respirator:* For normal product handling, use an NIOSH approved air-purifying dust respirator. For extremely dusty conditions, the use of a full-face air purifying particulate respirator is recommended.

**EMERGENCY WASH FACILITIES:** Where there is the potential that an employee's eyes and/or skin may be exposed to this product, the employer should provide an eye wash fountain and safety shower or another source of running water within the immediate work area.

## Section 9 – Physical and Chemical Properties

*Description:* Clear, white or transparent, free-flowing granules

*Molecular Formula:* MgSO<sub>4</sub> (magnesium sulfate heptahydrate)

*Molecular Weight:* Unknown

*ph:* 6-7

*Melting Point:* Loses water at 250 degrees C, decomposes above 2055 degrees F

*Boiling Point:* Not applicable

*Vapor Pressure:* Not applicable

*Water Solubility:* 71g/100ml water at 20 degrees C.

*Solvent Solubility:* No data available

*Specific Gravity:* 1.76 g/cm<sup>3</sup>, Bulk Density aprx 1.05 g/cm<sup>3</sup>

## Section 10 – Stability and Reactivity

*Reactivity:* Stable under normal temperatures and pressures.

*Conditions to Avoid:* None.

*Incompatibilities:* Ethoxy ethyl alcohols, arsenates, phosphates, tartrates, lead, barium, strontium and calcium.

*Hazardous Decomposition:* At very high temperatures: magnesium oxide, sulfur dioxide, and sulfur trioxide.

*Polymerization:* Will not occur

## Section 11 – Toxicological Information

Toxicological information listed below is for Magnesium Sulfate

### *Acute Toxicity:*

LD50: No information found relating to normal routes of occupational exposure. rat

LD50: No information found relating to normal routes of occupational exposure. mouse

Local Effects: none noted.

Eyes: none; moderate (rabbit)

Inhalation: Inhalation of dust may cause irritation of the respiratory tract with sore throat.

Ingestion: None noted.

### *Delayed / Chronic:*

CARCINOGEN STATUS: Data not available.

CHRONIC EXPOSURE: None noted.

## Section 12 – Ecological Information

*Acute Aquatic Toxicity:* No data available

*Degradability:* No data available

*Log Bioconcentration Factor (BCF):* No data available

*Log Octanol/Water partition coefficient:* No data available

## Section 13 – Disposal Considerations

Sweep up and repackage or place in a receptacle for future disposal or use in accordance with any and all federal, state, or local regulations. This material is not a hazardous waste. Landfill according to local, state and federal regulations.

## Section 14 – Transport Information

This product is not regulated in surface transportation in non-bulk quantities. The information below is for shipments exceeding 1,000 pounds in a single package, container, truck, or railcar.

*US DOT Shipping name:* Not regulated

*US DOT Hazard Class:* N/A.

*US DOT Identification Number:* N/A

*US DOT Packing Group:* N/A

*US DOT Label Code:* N/A

*Reportable Quantity:* None

## Section 15 – Regulatory Information

**TSCA Status:** All ingredients are listed on the TSCA Inventory of Chemical Substances.

**Other TSCA Issues:** None

**SARA 311 Classification:** Not Listed.

**SARA 313 Notification:** There are no ingredients on the SARA 313 reporting list.

**CERCLA RQ's and TPQ's:** Magnesium Sulfate does not have a reportable quantity.

**California Proposition 65:** No data available

**Canadian Inventory:** All ingredients are listed on the Canadian Domestic Substances List.

**WHMIS:** This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. Classification: D2B

## Section 16 – Other Information

**NFPA Ratings:** Health: 1, Flammability: 0, Reactivity: 0

**Label Hazard Warning:** None.

**Label Precautions:**

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Avoid breathing dust.

Use with adequate ventilation.

**Label First Aid:** Avoid breathing dust, if breathing is difficult remove to fresh air.

**Product Use:** Fertilizer and animal feed ingredient additive.

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