

MATERIAL SAFETY DATA SHEET

EPSOM SALTS (Magnesium Sulfate)

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Issue Date: 08/09

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

EPSOM SALTS (Magnesium Sulfate)

Common Name: Magnesium Sulfate 9.8% (Agricultural Grade)

Chemical Description: Magnesium Sulfate, Heptahydrate.

TSCA/CAS No.: 7487-88-9, 7732-18-5 (Hydrates are considered under TSCA as mixtures of anhydrous salt and water).

Manufactured For

Lawn & Garden Products, Inc.

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 994-9144

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Magnesium Sulfate	7487-88-9	9.8	N.A.*	N.P.*
Heptahydrate	7732-18-5			

*N.A. – Not Available.

*N.P. – Not Pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

White or transparent crystalline odorless powder. Causes mild irritation to eyes. Ingestion or Inhalation causes nausea, vomiting, abdominal cramps and diarrhea. At very high temperatures, magnesium oxide, sulfur dioxide and sulfur trioxide may be generated. Not D.O.T. regulated.

HEALTH: 1

REACTIVITY: 0

FLAMMABILITY: 0

ENVIRONMENT: 0

(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

SECTION 4. FIRST AID

Eyes: Flush immediately with water for at least 15 minutes. Call a physician if eye irritation persists.

Skin: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. See a physician if skin becomes irritated.

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

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing becomes difficult, give oxygen. Get medical attention.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point:	Not pertinent.
Test Method:	Not available.
LEL Flammable Limits:	Not available.
UEL Flammable Limits:	Not available.
Autoignition Temperature:	Not available.
Flammability Classification:	Noncombustible.
Known Hazardous Products of Combustion:	None.
Properties that Initiate/Contribute to Intensity of Fire:	None.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	None.
Extinguishing Media:	Compatible with all extinguishing media.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6. SPILLS AND LEAKS

Containment:	Prevent product spillage from entering drinking water supplies or streams.
Clean Up:	Sweep, scoop, or vacuum discharged material. Flush residue with water. Caution – spilled material can be slippery. Observe environmental regulations.
Evacuation:	Not necessary.

SECTION 7. STORAGE AND HANDLING

Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures between 68-110°F and 54-87% relative humidity. Do not store near food or feeds. Do not stack pallets more than two (2) high.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practices:	Keep out of reach of children. Avoid contact with eyes, skin and clothing. Avoid inhalation of dusts. Wash thoroughly with soap and water after handling.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Eyes:	Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin:	Impervious gloves and clothes.
Respiratory:	Not normally needed. If use generates a respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation:	Recommended but no TLV established.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	White or transparent crystalline powder.
Odor:	None.
pH:	Approximately 6 – 7.
Vapor Pressure:	Not available.
Vapor Density (Air = 1):	Not available.
Boiling Point:	Not available.
Freezing Point:	Not available.
Water Solubility:	71 g/100 ml @ 20°C; 91 g/100 ml @ 40°C
Bulk Density:	1.05 g/cm ³
Evaporation Rate:	Not available.
Viscosity:	Not available.
% Volatile:	Not available.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid:	None.
Incompatibility:	Avoid metal hydrides and other water reactive materials.
Hazardous Decomposition Products:	At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	Causes mild irritation to the eyes.
Skin:	No known adverse effects.
Ingestion:	Causes nausea, vomiting, abdominal cramps, and diarrhea.
Inhalation:	Causes nausea, vomiting, abdominal cramps, and diarrhea.

Subchronic Effects: None known.

Chronic Effects: None known.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	Not known.
Toxicity to Fish and Invertebrates:	Not known.
Toxicity to Plants:	Not known.
Toxicity in Birds:	Not known.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

SECTION 14. TRANSPORTATION

D.O.T.:	Not D.O.T. Regulated.
Other Shipping Description:	Magnesium Sulfate (Epsom Salts), Dry. NMFC Item 45140, LTL Class 60

SECTION 15. REGULATORY INFORMATION
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CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: None.

SECTION 16. OTHER

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.