

MATERIAL SAFETY DATA SHEET

MONTEREY MAG SULF 5%

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Issue Date: 3/04

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

MONTEREY MAG SULF 5%

Common Name: Liquid fertilizer.

Chemical Description: Magnesium sulfate, aqueous solution.

TSCA/CAS No.: This product is a mixture — the primary CAS No. is 7387-88-9

Manufactured For

Monterey Chemical Company

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES: (559) 431-7390

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

EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
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None

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Colorless, transparent, odorless liquid. Noncombustible at very high temperatures; magnesium oxide, sulfur dioxide and sulfur trioxide may be generated. Avoid contact with metal hydrides and other water reactive materials. Spilled material may be slippery. Not DOT regulated.

HEALTH: 1 REACTIVITY: 1 FLAMMABILITY: 0 ENVIRONMENT: 0

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

SECTION 4. FIRST AID

Eyes: Not necessary, but victim may want to flush eyes with water. Do not rub eyes.

Skin: Not necessary, but victim may want to wash thoroughly with soap and water.

Ingestion: If large quantities of this material are swallowed, call a physician or Poison Control Center immediately. Do not induce vomiting unless directed to do so by a physician or Poison Control Center. Never give anything by mouth to an unconscious person.

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

SECTION 5.	FIRE AND EXPLOSION HAZARDS
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Flash Point:	This material is noncombustible.
Test Method:	Not applicable.
LEL Flammable Limits:	Not applicable.
UEL Flammable Limits:	Not applicable.
Autoignition Temperature:	Not applicable.
Flammability Classification:	Noncombustible.
Known Hazardous Products of Combustion:	Magnesium oxide, sulfur dioxide and sulfur trioxide may be generated.
Properties that Initiate/Contribute to Intensity of Fire:	Not known.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	Not known.
Unusual Fire & Explosion Hazards:	Magnesium oxide, sulfur dioxide and sulfur trioxide may be generated.
Extinguishing Media:	Compatible with all extinguishing materials.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6.	SPILLS AND LEAKS
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Small spill:	Mop up discharge material. Flush residue with water. Observe environmental regulations.
Large spill:	Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent run off from entering into storm sewers and ditches, which lead to a natural waterway. If possible isolate, dike and store discharged material. Use sand or earth to contain spilled material. If containment is impossible, flush with large quantities of water.
Evacuation:	Not necessary.

SECTION 7.	STORAGE AND HANDLING
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Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures between 50 and 120°F. 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 breathing mist. Promptly clean up spills. Wash thoroughly with water after handling.

SECTION 8.	PERSONAL PROTECTIVE EQUIPMENT
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Eyes:	Wear chemical goggles. As a general rule, do not wear contact lenses when handling.
Skin:	Wear gloves if irritation occurs.
Respiratory:	If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Engineering controls:	Use with adequate ventilation. Safety shower and eyewash fountain should be within direct access.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Transparent, colorless liquid.
Odor:	None.
pH:	~ 7.
Vapor Pressure:	Not available.
Vapor Density (Air = 1):	Not available.
Boiling Point:	Not available.
Freezing Point:	Not available.
Water Solubility:	Miscible.
Density:	10.2 lbs./gal.
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:	Contact with 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 EFFECTS

<u>Acute Effects:</u>	
Eyes:	No known adverse effects.
Skin:	No known adverse effects.
Ingestion:	Causes nausea, vomiting, abdominal cramps and diarrhea. RTECS reports the following data for magnesium sulfate: oral LD50 = 428 mg/kg (male); 351 mg/kg (female).
Inhalation:	Causes nausea, vomiting, abdominal cramps and diarrhea.
<u>Chronic Effects:</u>	No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen.

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.
Environmental Fate:	This material is not persistent in aquatic systems and does not contribute to BOD. It does not bioconcentrate up the food chain.
Physical/Chemical	Sinks and mixes with water.

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. Proper Shipping Description:	Not D.O.T. regulated.
Other Shipping Description:	Fertilizing Compounds (Manufactured), Liquid. NMFC Item 68140 Sub 6, LTL Class 70

SECTION 15. REGULATORY INFORMATION

CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: None.

PROPOSITION 65 (CA): **WARNING**: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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.