

MATERIAL SAFETY DATA SHEET

MONTEREY MAG-NITE

Page 1 of 4

Issue Date: 11/99

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

MONTEREY MAG-NITE

Common Name: Liquid fertilizer.

Chemical Description: Magnesium nitrate, aqueous solution.

TSCA/CAS No.: This product is a mixture — the primary CAS No. is 13446-18-9

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)
Magnesium nitrate hexahydrate	13446-18-9	66.7	* N.A.	* N.P.

* N.A. - Not Available.

* N.P. - Not Pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Colorless to slight yellowish liquid with no odor. This product is incompatible with strong oxidizing agents and acids. Extreme heat may cause product to decompose, producing toxic fumes of nitrogen oxides. Avoid contact with oxidizable (flammable liquids). D.O.T. regulated as an oxidizer.

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

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

SECTION 4. FIRST AID

Eyes: Flush immediately with water for at least 15 minutes. Do not rub eyes. Get immediate medical attention.

Skin: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention.

Ingestion: Call a physician or Poison Control Center immediately. If conscious and alert, drink large quantities of water and induce vomiting. Do not give anything to an unconscious person.

Inhalation: Move to fresh air. If breathing becomes difficult, call a physician.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point:	Not applicable.
Test Method:	Not applicable.
LEL Flammable Limits:	Not applicable.
UEL Flammable Limits:	Not applicable.
Autoignition Temperature:	Not pertinent.
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:	When heated to decomposition, this product will emit toxic fumes containing nitrogen oxide compounds. Dry product can support combustion of flammable materials.
Extinguishing Media:	Water, foam, dry powder, CO ₂ or halon.
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:	Collect liquid or absorb onto absorbent material and package for disposal.
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 above 40°F. Do not store in contact with strong acids and oxidizing agents. 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 spray mists. Wash thoroughly with 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 an aerosol mist or 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:	Colorless to slight yellowish liquid.
Odor:	None.
pH:	3.4 @ 15°C (59°F).
Vapor Pressure:	Not available.
Vapor Density (Air = 1):	Not available.
Boiling Point:	100°C (212°F)
Freezing Point:	-7°C (19.4°F)
Water Solubility:	Completely soluble.
Density:	11.3 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:	Extreme heat and contact with incompatible chemicals. Avoid allowing material to dry to a powder, it is a strong oxidizer in its dry form.
Incompatibility:	Contact with readily oxidizable or flammable liquids at elevated temperatures.
Hazardous Decomposition Products:	Extreme heat may produce toxic fumes of nitrogen oxides.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTS

<u>Acute Effects:</u>	
Eyes:	Mild irritation and or conjunctivitis. Ocular LD ₅₀ rabbit is 500 kg/mg (24 hours).
Skin:	Mild irritant, especially from prolonged exposure. May cause redness, itching, peeling. Dermal LD ₅₀ rabbit is 500 kg/mg.
Ingestion:	May cause stomach cramps and/or nausea. Low toxicity: Oral LD ₅₀ rat is 5440 kg/mg.
Inhalation:	May cause irritation of nasal mucous membranes or the upper respiratory system. Symptoms of inhalation exposure can include coughing, fever and nausea.
<u>Subchronic Effects:</u>	None known.
<u>Chronic Effects:</u>	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. Proper Shipping Description: Magnesium Nitrate Solution, 5.1, UN 1474, PG III
(Placards Req. For Loads More Than 1,001 Lbs.) ERG
#140.

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): 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.