

MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals, Inc
7 Mulliken Way
Newburyport, MA 01950-4098 U.S.A.
www.strem.com

Strem Customer Service (978) 499-1600
CHEMTREC (Emergency Only) (800) 424-9300
Poison Center (800) 562-8236

Section 1: Product Identification

Chemical Name: Magnesium nitrate hexahydrate,99% (ACS)
Product Number: 93-1238
CAS Registry Number: 13446-18-9
Formula: Mg(NO3)2.6H2O
EINECS Number: 233-826-7
Chemical Family: metal nitrate salts
Synonym: Magnesium dinitrate hexahydrate, Nitric acid, magnesium salt

Section 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	13446-18-9	100%	no data	no data

Section 3: Hazards Identification

Emergency Overview: Irritating to the respiratory tract, skin and eyes. May be harmful if swallowed.
Primary Routes of Exposure: Ingestion
Eye Contact: Causes slight to mild irritation of the eyes.
Skin Contact: Causes slight to mild irritation of the skin.
Inhalation: Irritating to the nose, mucous membranes and respiratory tract.
Ingestion: Ingestion may lead to dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, and convulsions.
Acute Health Affects: Irritating to skin, eyes and respiratory tract.
Chronic Health Affects: No information available on long-term chronic effects.
NTP: No
IARC: No
OSHA: No

SECTION 4: First Aid Measures

Eye Exposure: Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
Skin Exposure: Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
Inhalation: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
Ingestion: Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

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SECTION 5: Fire Fighting Measures

Flash Point: not applicable
Autoignition Temperature: none
Explosion Limits: none
Extinguishing Medium: carbon dioxide, foam or dry powder
Special Fire Fighting Procedures: If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.
Hazardous Combustion and Decomposition Products: If involved in a fire this material may emit irritating fumes.
Unusual Fire or Explosion Hazards: Metal nitrates can be oxidizers. Contact with strong reducing agents could lead to fires and/or explosions.

SECTION 6: Accidental Release Measures

Spill and Leak Procedures: Small spills can be mixed with vermiculite or sodium carbonate and swept up.

SECTION 7: Handling and Storage

Handling and Storage: Store in a tightly sealed container. Keep away from heat and direct sunlight.

SECTION 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection: Wear protective clothing and gloves.
Ventilation: If possible, handle the material in an efficient fume hood.
Respirator: If ventilation is not available a respirator should be worn. The use of respirators requires a Respiratory Protection Program to be in compliance with 29 CFR 1910.134.
Ventilation: If possible, handle the material in an efficient fume hood.
Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form: white xtl.
Molecular Weight: 148.32 (256.41)
Melting Point: 89°
Boiling Point: no data
Vapor Pressure: not applicable
Specific Gravity: 1.64
Odor: none
Solubility in Water: very soluble

SECTION 10: Stability and Reactivity

Stability: hygroscopic
Hazardous Polymerization: no hazardous polymerization
Conditions to Avoid: Contact with strong reducing agents or organic matter. Some nitrates can explode if heated to high temperatures.
Incompatibility: reducing agents, organic matter, phosphorus and sulfur
Decomposition Products: nitrogen oxides and magnesium salts

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SECTION 11: Toxicological Information

RTECS Data: Administration onto the skin (rabbit); Standard Draize test:500 mg/24H. Administration into the eye (rabbit); Standard Draize test:500 mg/24H. Oral (rat); LD50:5440 mg/kg.
Carcinogenic Effects: No data available
Mutagenic Effects: No data available
Tetratogenic Effects: No data available

SECTION 12: Ecological Information

Ecological Information: No data available

SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name (CFR): Magnesium nitrate
Hazard Class (CFR): 5.1
Additional Hazard Class (CFR): NA
Packaging Group (CFR): III
UN ID Number (CFR): UN# 1474
Shipping Name (IATA): Magnesium nitrate
Hazard Class (IATA): 5.1
Additional Hazard Class (IATA): NA
Packaging Group (IATA): III
UN ID Number (IATA): UN# 1474

SECTION 15: Regulatory Information

TSCA: Not listed in TSCA inventory
SARA (Title 313): Title compound: See Category Code N511 for reporting.
Second Ingredient: none
Third Ingredient: none

SECTION 16: Other Information

Disclaimer: The information herein is believed to be accurate and reliable as of the date compiled. However, Strem Chemicals, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information.
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