



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Magnesium Nitrate Hexahydrate**  
PRODUCT NUMBER: 2458  
CAS NUMBER: 13446-18-9  
SYNONYMS: Magnesium dinitrate hexahydrate; nitric acid, magnesium salt.  
**MANUFACTURER:**

Prochem, Inc.  
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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H272	May intensify fire; oxidizer.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces.
P220	Keep/store away from clothing/combustible material.
P221	Take any precaution to avoid mixing with combustibles.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

### HMIS CLASSIFICATION:

Health: 1      Fire: 0      Reactivity Hazard: 2

### NFPA RATING:

Health: 1      Flammability: 0      Reactivity Hazard: 2

**EYE CONTACT:** Causes serious eye irritation.

**SKIN CONTACT:** Causes skin irritation.

**INHALATION:** May cause respiratory irritation.

**INGESTION:** Ingestion may lead to dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, and convulsions.

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $Mg(NO_3)_2 \cdot 6H_2O$

Molecular Weight: 256.41

CHEMICAL NAME	CAS#	%
Magnesium nitrate hexahydrate	13446-18-9	100

### SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove 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 assistance immediately. Keep the victim calm. Give the victim water. Induce vomiting only if directed by medical personnel.

### SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not applicable.

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Some nitrates can explode if heated to high temperatures.

**EXTINGUISHING MEDIUM:** Carbon dioxide, foam, or dry powder.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. This product is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Magnesium oxide and nitrogen oxides

### SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust. Acts as an oxidizing agents on organic materials such as wood, paper, and fats. Keep away from combustible materials.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Mix spills with vermiculite or sodium carbonate. Sweep up and place in suitable container for proper disposal.

### SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Avoid formation of dusts and aerosols. Handle under inert gas.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Store under inert gas. Hygroscopic – protect from humidity and water. Keep away from direct heat and direct sunlight.

### SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EXPOSURE CONTROLS:** Contains no substances with occupational exposure limit values.

**EYE PROTECTION:** Wear chemical safety glasses or goggles and face shield.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator.

**ADDITIONAL PROTECTION:** Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White crystalline solid

**ODOR:** None

**MOLECULAR WEIGHT:** 256.41

**BOILING POINT:** 330°C (dec.)

**MELTING POINT:** 89°C

**SPECIFIC GRAVITY:** 1.636 gm/ml

**VAPOR DENSITY:** No data available

**SOLUBILITY:** Very soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** None known

**CONDITIONS TO AVOID:** Contact with strong reducing agents or organic matter. Some nitrates can explode if heated to high temperatures.

**INCOMPATIBILITY:** Strong reducing agents, strong acids, organic materials, powdered metals, dimethylformamide, and combustible materials.

**DECOMPOSITION PRODUCTS:** Nitrogen oxides and magnesium oxides.

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – Rat – 5440 mg/kg. Administration onto the skin (rabbit); Standard Draize test: 500mg/24H.

Administration into the eye (rabbit); Standard Draize test, 500 mg/24H.

**CARCINOGENIC EFFECTS:** No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.

**MUTAGENIC EFFECTS:** Not available

**TETRAOGENIC EFFECTS:** Not available

**CHRONIC TOXICITY:** Not available

**RTECS:** OM3756000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

No information available

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

## SECTION 14 TRANSPORTATION DATA

UN1474

Magnesium nitrate

CLASS 5.1

PG III

Marine Pollutant: No

## **SECTION 15 REGULATORY INFORMATION**

**TSCA:** Not listed in the TSCA inventory

**SARA 302/304:** Not Listed

**SARA 311/312:** Chronic Health Hazard

**SARA (TITLE 313):** Not Listed

**CALIFORNIA PROP. 65:** Not Listed

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** Magnesium Nitrate hexahydrate

**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Magnesium Nitrate hexahydrate

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Magnesium Nitrate hexahydrate

## **SECTION 16 OTHER INFORMATION**

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DATE PREPARED: 05/15

SDS DEPT.