



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Magnesium, powder**

PRODUCT NUMBER: 2437

CAS NUMBER: 7439-95-4

### MANUFACTURER:

Prochem, Inc.  
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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H228	Flammable solid.
H251	Self-heating; may catch fire.
H261	In contact with water releases flammable gas.

### Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces.
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231+P232	Handle under inert gas. Protect from moisture.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P335+P334	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P402+P404	Store in a dry place. Store in a closed container.
P420	Store away from other materials.

### HMIS CLASSIFICATION:

Health: 0      Fire: 2      Reactivity Hazard: 2

### NFPA RATING:

Health: 0      Flammability: 2      Reactivity Hazard: 2      Specific Hazard: W

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**EYE CONTACT:** May cause eye irritation

**SKIN CONTACT:** May be harmful if absorbed through the skin. Causes skin irritation

**INHALATION:** May be harmful if inhaled. Causes respiratory tract irritation.

**INGESTION:** May be harmful if swallowed

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Mg

Molecular Weight: 24.31

CHEMICAL NAME	CAS#	%
Magnesium	7439-95-4	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 competent 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 and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Contact with water releases extremely flammable gases. May form combustible dust concentrations in air.

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Risk of dust explosion

**EXTINGUISHING MEDIUM:** Use special powder for metal fires. Do NOT use water. Contact with water released flammable gases.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Magnesium oxide and flammable hydrogen with moisture.

## 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. Keep away from ignition sources.

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

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Cover spill with dry soda ash, limestone, or sand. 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. Keep away from sources of ignition – no smoking. Further processing of solid materials may result in the formation of combustible dusts the potential for combustible dust formation should be taken into consideration before additional processing occurs. Handle under dry protective gas

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Never allow product to get in contact with water during storage. Store under dry inert gas.

## 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:** Gray or white powder

**ODOR:** None

**MOLECULAR WEIGHT:** 24.31

**BOILING POINT:** 1107°C

**MELTING POINT:** 650°C

**SPECIFIC GRAVITY:** 1.738 gm/ml

**SOLUBILITY:** Insoluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** In contact with water releases flammable gases which may ignite spontaneously. Catches fire spontaneously if exposed to air.

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Contact with water. Heat, flames, and sparks. Extremes of temperature and direct sunlight. Formation of a cloud of dust in the air.

**INCOMPATIBILITY:** Air, oxidizing agents, nitrogen, water, moisture, alcohols, carbon dioxide, halogens, halocarbons, and acids.

**DECOMPOSITION PRODUCTS:** Magnesium oxide and flammable hydrogen with moisture.

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** Not available

**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

**TETRATOGENIC EFFECTS:** Not available

**CHRONIC TOXICITY:** Not available

**RTECS:** OM2100000

Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, chills, fever, fatigue, muscle pain, joint pain, rash, anorexia.

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**

UN1418

Magnesium powder

CLASS 4.3 (4.2)

PG II

Marine Pollutant: No

## **SECTION 15 REGULATORY INFORMATION**

**TSCA:** Listed in the TSCA inventory

**SARA 302/304:** Not Listed

**SARA 311/312:** Reactivity Hazard

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

**CALIFORNIA PROP. 65:** Not Listed

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** Magnesium

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

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Magnesium

## **SECTION 16 OTHER INFORMATION**

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DATE PREPARED: 05/15

SDS DEPT.