



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Magnesium chloride hexahydrate**  
PRODUCT NO: 2447  
CAS NO: 7791-18-6  
SYNONYMS: Magnesium dichloride hexahydrate

### MANUFACTURER:

Prochem, Inc.  
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Rockford, IL 61109

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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Not a dangerous substance according to the GHS

### HMIS CLASSIFICATION:

Health: 0 Flammability: 0 Reactivity: 0

### NFPA RATING:

Health: 0 Fire: 0 Reactivity Hazard: 0

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $MgCl_2 \cdot 6H_2O$

Molecular Weight: 203.31

| CHEMICAL NAME                  | CAS#      | %   | ACGIH (TWA) | OSHA (PEL) |
|--------------------------------|-----------|-----|-------------|------------|
| Magnesium chloride hexahydrate | 7791-18-6 | 100 | No data     | No data    |

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with running water for at least 15 minutes, keeping the eyelids open. Consult a physician.

**SKIN EXPOSURE:** Wash immediately with soap and plenty of water. If irritation persists, seek medical attention.

**INHALATION:** Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

**INGESTION:** Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Product is not flammable

**AUTO IGNITION TEMPERATURE:** Not applicable

**EXPLOSION LIMITS:** Not applicable

**EXTINGUISHING MEDIUM:** Use extinguishing measures that are appropriate for the surrounding environment.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus and fully protective impervious suit.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Hydrogen chloride gas and magnesium oxide

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear personal protective equipment. Ensure adequate ventilation.

**ENVIRONMENTAL PRECAUTIONS:** Do not let product enter drains.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Do not breathe dust. Provide appropriate exhaust ventilation. Keep away from incompatibles such as oxidizing agents.

**CONDITIONS FOR SAFE STORAGE:** Keep container tightly closed and store in a cool, dry, and well-ventilated area. This is hygroscopic. Protect from moisture.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EYE PROTECTION:** Always wear approved safety glasses with side shields, safety goggles, or face shield when handling a chemical substance in the laboratory.

**SKIN PROTECTION:** Chemical resistant gloves.

**VENTILATION:** If possible, handle the material in an efficient fume hood.

**RESPIRATOR:** If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White solid

**MELTING POINT:** 117° C (dec.)

**BOILING POINT:** No data available

**MOLECULAR WEIGHT:** 203.3

**ODOR:** Odorless

**SPECIFIC GRAVITY:** 1.57 gm/ml

**VAPOR PRESSURE:** Not applicable

**SOLUBILITY IN WATER:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Exposure to moisture

**INCOMPATIBILITY:** Strong oxidizing agents

**DECOMPOSITION PRODUCTS:** Hydrogen chloride and magnesium oxide.

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat – 8,1000 mg/kg

## SECTION 11 TOXICOLOGICAL DATA (Cont.)

**CARCINOGENIC EFFECTS:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

**MUTAGENIC EFFECTS:** No data

**TETRAUTOGENIC EFFECTS:** No data

**RTECS:** OM2975000

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

Non-hazardous material

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA Inventory

**SARA 302 COMPONENTS:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA (TITLE 313):** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 HAZARD:** Chronic health hazard

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** No components are subject to the Massachusetts Right to Know Act.

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

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

**CALIFORNIA PROP. 65 COMPONENTS:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## SECTION 16 OTHER INFORMATION

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

**DATE PREPARED:** 04/14

**SDS DEPT.**