



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Magnesium chloride, anhydrous**  
PRODUCT NO: 2445  
CAS NO: 7786-30-3  
SYNONYMS: Magnesium dichloride

### MANUFACTURER:

Prochem, Inc.  
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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: 1      Flammability: 0      Reactivity: 1

### NFPA RATING:

Health: 1      Fire: 0      Reactivity Hazard: 0

**EYE CONTACT:** Dust may cause sever irritation of the eyes.

**SKIN CONTACT:** Causes irritation of the skin.

**INHALATION:** Inhalation of dust can lead to irritation of the respiratory tract. May be harmful if inhaled.

**INGESTION:** Moderately toxic if ingested

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $MgCl_2$

Molecular Weight: 95.21

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Magnesium chloride, anhydrous	7786-30-3	100	No data	No data

## 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.

## SECTION 4 FIRST AID MEASURES (Cont.)

**SKIN EXPOSURE:** Wash 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 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:** Material is not flammable or combustible

**AUTO IGNITION TEMPERATURE:** No data

**EXPLOSION LIMITS:** No data

**EXTINGUISHING MEDIUM:** Use fire fighting measures that suit the surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** If 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 toxic fumes of hydrogen chloride.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Be sure to minimize direct contact with skin or eyes and prevent inhalation of dust.

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

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Sweep up, place in a container and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pick up is complete.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Provide appropriate exhaust ventilation at places where dust is formed.

**CONDITIONS FOR SAFE STORAGE:** Store material in a tightly sealed container away from moisture. Store under inert gas. Material is hygroscopic.

## 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 to gray solid

**MELTING POINT:** 714° C

**BOILING POINT:** 1412° C

**MOLECULAR WEIGHT:** 95.21

**ODOR:** No data available

**SPECIFIC GRAVITY:** 2.32 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:** Protect from moisture

**INCOMPATIBILITY:** Strong oxidizing agents

## SECTION 10 STABILITY AND REACTIVITY (Cont.)

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

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50-Oral – rat – female - > 5,000 mg/kg. LD50 Dermal – rat – male and female - > 2,000 mg/kg.

**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:** Species: Human, does 20 MMOL/L. Cell Type: Fibroblast, Mutation test: DNA damage.

**TETRAOGENIC EFFECTS:** No data

**RTECS DATA:** OM2800000

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

## SECTION 12 ECOLOGICAL DATA

**Toxicity to fish:** Static test LC50 – Pimephales promelas (fathead minnow) – 2,119.3 mg/l – 96 h

**Toxicity to daphnia and other aquatic invertebrates:** Static test LC50 – Daphnia magna (water flea) – 548.4 mg/l – 48 h

**Toxicity to algae:** Growth inhibition EC50 – Desmodesmus subspicatus (Scenedesmus subspicatus) - > 100 mg/l – 72 h

**Toxicity to bacteria:** Respiration inhibition EC50 – Sludge Treatment - > 900 mg/l – 3 h

## 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 HAZARDS:** 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

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

**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: 03/14

SDS DEPT.