



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Magnesium Chloride Hydrate**
PRODUCT NO: 2445-5
CAS NO: 22756-14-5
SYNONYMS: Magnesium dichloride hydrate

MANUFACTURER:

ProChem, Inc.
826 Roosevelt Road
Rockford, IL 61109

PHONE: 815-398-1788
TOLL FREE: 800-795-8788

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: $MgCl_2 \cdot xH_2O$

Molecular Weight: 95.21 (anhy.)

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Magnesium chloride hydrate	22756-14-5	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 OSHA compliance with 29 CFR 1910.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White solid

MELTING POINT: 117° C (dec.)

BOILING POINT: No data available

MOLECULAR WEIGHT: 95.21 (anh.)

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- > 5,000 mg/kg and LD50 Dermal – rat – male and female - > 2,000 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

TETRATOGENIC 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 hydrate

NEW JERSEY RIGHT TO KNOW COMPONENTS: Magnesium chloride hydrate

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 PREVIOUSLY REPAIRED: 04/14

DATE REVISED: 09/26

REVISION SUMMARY: Updated to Section # 11. All other details in this document about this product remained unchanged. EHS 09/08/26

EHS/SDS DEPT.