



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Magnesium chloride, anhydrous**
PRODUCT NO: 2446-1
CAS NO: 7786-30-3
SYNONYMS: Magnesium dichloride

MANUFACTURER:

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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.