

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Magnesium perchlorate
CAS #: 10034-81-8
FORMULA: Mg(ClO₄)₂
SYNONYM: Perchloric acid, Magnesium salt

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	10034-81-8	100	no data	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Irritating to the respiratory tract, skin and eyes. May be harmful if swallowed.
PRIMARY ROUTES OF EXPOSURE: Ingestion
EYE CONTACT: Causes moderate irritation of the eyes.
SKIN CONTACT: Causes moderate irritation of the skin.
INHALATION: Irritating to the nose, mucous membranes and respiratory tract.
INGESTION: No specific information is available on the physiological effects of ingestion. May cause gastrointestinal irritation, nausea, and vomiting.
CHRONIC HEALTH EFFECTS: Perchlorates reversibly inhibit thyroid iodine uptake. Kidney function may be affected.
ACUTE HEALTH EFFECTS: Irritating to skin, eyes and respiratory tract.

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 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: no data

AUTO IGNITION TEMPERATURE: no data

EXPLOSION LIMITS: no data

EXTINGUISHING MEDIUM: Water spray

SPECIAL FIREFIGHTING 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 corrosive hydrogen chloride fumes.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Do not mix with combustibles. Releases oxygen on heating. May decompose explosively under fire fighting conditions

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Do not mix spilled powder with any combustible materials, such as sawdust. Sweep up the solid and dilute with water.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container in a cool dry place away from combustible and flammable materials. If the container is left open, salt will absorb moisture from the atmosphere.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

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 powder

MOLECULAR WEIGHT: 223.21

MELTING POINT (DEG. C.): no data

BOILING POINT: no data

VAPOR PRESSURE: not applicable

SPECIFIC GRAVITY: 2.21

SOLUBILITY IN WATER: 99.3g/100cc (25°C)

SECTION 10 Stability and Reactivity

STABILITY: hygroscopic
HAZARDOUS POLYMERIZATION: no hazardous polymerization
CONDITIONS TO AVOID: Any contact with combustible matter.
INCOMPATIBILITY: Reducing agents, organic matter, active metals, phosphorus, sulfur, hydrazine, hydroxylamine, strong acids
DECOMPOSITION PRODUCTS: Oxygen, Magnesium oxide, hydrogen chloride

SECTION 11 Toxicological Information

RTECS DATA: Intraperitoneal (mouse); LD50:1500mg/kg
MUTAGENIC EFFECTS: no data
TETRATOGENIC EFFECTS: no data
CARCINOGENIC EFFECTS: no data

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

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Magnesium perchlorate, Class 5.1, UN 1475, PG II

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory
SARA (TITLE 313): Title compound not listed

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: 2/06