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**PHARMCO-AAPER**  
AND COMMERCIAL ALCOHOLS

Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300

**MATERIAL SAFETY DATA SHEETS**

Manufacturer: PHARMCO-AAPER  
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**MSDS Number: MZMAGCH MSDS Version: 001**

001 04/05/93 MAGNESIUM CHLORIDE

PRODUCT NAME:

MAGNESIUM CHLORIDE

MSDS #: MZMAGCH

**PRODUCT IDENTIFICATION:**

Synonyms: Magnesium chloride, hexahydrate; magnesium dichloride hexahydrate; Magnesium chloride, 6-hydrate, crystal ; Magnesium dichloride

Formula CAS No.: 7791-18-6 (Hydrated) Molecular Weight: 203.30

TSCA CAS No.: 7786-30-3 (Anhydrous)

Hazardous Ingredients: Not applicable. Chemical Formula: MgCl<sub>2</sub> 6H<sub>2</sub>O

**PRECAUTIONARY MEASURES**

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

EMERGENCY FIRST AID

SEE SECTION 5.

DOT Hazard Class: Not Regulated

Physical Data

Appearance: Colorless flakes or crystals.

Odor: Odorless.

Solubility: 167g/100ml water @ 20 C (68 F)

Boiling Point: Not applicable.

Melting Point: 118 C (244 F) with decomposition.

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg): No information found.

Specific Gravity : 1.57

Evaporation Rate: No information found.

Fire and Explosion

**SECTION 2**

Information

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard. At room temperature the addition of magnesium chloride to furan-2-peroxycarboxylic acid, will cause the acid to explode.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### **Reactivity Data SECTION 3**

Stability: Stable under ordinary conditions of use and storage. By strong ignition is converted into oxychloride.

Hazardous Decomposition

Products: When heated to decomposition it emits corrosive hydrochloric acid vapor. When heated to temperatures above 300 C (572 F) it emits toxic fumes of chlorine gas.

Hazardous Polymerization: Will not occur.

Incompatibilities: Furan-2-peroxycarboxylic acid. Strong oxidizing agents will release chlorine.

### **Leak/Spill Disposal Information SECTION 4**

Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Disposal: Whatever cannot be saved for reclamation may be delivered to an approved waste disposal facility.

Ensure compliance with local, state and federal regulations.

### **Health Hazard Information SECTION 5**

#### **A. Exposure/Health Effects**

Inhalation: Inhalation of dust may cause mild irritation to the mucous membranes.

Ingestion: Small doses act as a laxative. Massive doses may cause dangerous and even fatal intoxications. Symptoms may include nausea, vomiting, general discomfort and confusion.

Skin Contact: Small particles embedded in the skin may cause swelling and ulceration.

Eye Contact: Contact may cause irritation and redness.

Chronic Exposure: No information found.

Aggravation of

Pre-existing Conditions: No information found.

#### **B. FIRST AID**

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Skin Exposure: Remove any contaminated clothing. Wipe off excess from skin. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye Exposure: Wash eyes with plenty of water for at least 15 minutes.

If irritation develops, get medical attention.

#### **C. TOXICITY (RTECS, 1986)**

Oral rat LD50: 8100mg/kg.

### **Occupational Control Measures SECTION 6**

Airborne Exposure Limits: None established.

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create

discomfort to the worker, a local exhaust system should be considered.

Personal Respirators For conditions of use where exposure to the dust (NIOSH Approved) is apparent, a dust/mist respirator may be worn.

For emergencies, a self-contained breathing apparatus may be necessary.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls to prevent skin contact.

Eye Protection: Use chemical safety goggles. Contact lenses

should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

**Storage and Special Information SECTION 7**

Keep in a tightly closed container, stored in a cool, dry, ventilated area.

Protect against physical damage. Isolate from incompatible substances.

Addendum to Material Safety Data Sheet

**REGULATORY STATUS**

Hazard Categories for SARA

Section 311/312 Reporting

Acute Chronic Fire Pressure Reactive

SARA Sec. 313

SARA EHS Chemicals CERCLA RCRA

Product or Components Sec. 302 Name Chemical Sec.103 Sec.

of Product: RQ TPQ List Category RQ lbs 261.33

**MAGNESIUM CHLORIDE**

(7786-30-3) No No No No No No

SARA Section 302 EHS RQ:

Reportable Quantity of Extremely Hazardous Substance, listed at 40 CFR 355.

SARA Section 302 EHS TPQ:

Threshold Planning Quantity of Extremely Hazardous substance. An asterisk (\*)

following a Threshold Planning Quantity signifies that if the material is a

solid and has a particle size equal to or larger than 100 micrometers, the

Threshold Planning Quantity = 10,000 LBS.

SARA Section 313 Chemicals:

Toxic Substances subject to annual release reporting requirements

listed at 40 CFR 372.65.

CERCLA Sec. 103:

**Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA):** No chemicals ion this material with known CAS numbers are subject to the reporting requirements of CERCLA.

RCRA:

Resource Conservation and Reclamation Act. Commercial chemical product wastes

designated as acute hazards and toxic under 40 CFR 261.33

Addendum to MSDS – California Proposition 65

The State of California requires that we provide to customers and

employees in California warnings about reproductive and carcinogenic

hazards associated with substances sold in California that are listed

under Proposition 65. Information on this Proposition 65 MSDS addendum addresses that requirement and

should be used in conjunction with this

Material Safety Data Sheet.

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Product(s): MAGNESIUM CHLORIDE

CAS NO. 7791-18-6 TSCA NO. 7786-30-3

WARNING: This product may contain a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

Maximum Limits of Impurities

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HEAVY METALS 0.0005% MAX

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The information contained herein is based on data considered to be accurate based on the material as packaged. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It is the user's obligation to determine the

conditions of safe use of the product. While this MSDS is based on technical data judged to be reliable, PHARMCO-AAPER assumes not responsibility for the completeness or accuracy of the information contained herein.

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