**Section 1 - Chemical Product and Company Identification**

**Chemical Name:** Magnesium Sulfate Heptahydrate, Technical Standard Grade  
**Product Use:** For Commercial Use  
**Synonyms:** Magnesium sulfate, 7-hydrate; Epsom salt  
**Manufacturer Information**  
Chem One Corporation (Importer of record)  
8017 Pinemont Drive, Suite 100  
Houston, Texas  
Phone #: (713) 896-9966  
Fax #: (713) 896-7540  
Emergency #: 1-800-424-9300

**General Comments**  
NOTE: Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

**Section 2 - Composition / Information on Ingredients**

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Components</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>10034-99-8</td>
<td>Magnesium Sulfate Heptahydrate</td>
<td>&gt;99%</td>
</tr>
</tbody>
</table>

**Component Related Regulatory Information**  
This product may be regulated, have exposure limits or other information identified as the following: Magnesium sulfate (7487-88-9).

**Component Information/Information on Non-Hazardous Components**  
This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

**Section 3 - Hazards Identification**

**Emergency Overview**  
Product exists as colorless to white crystals. May cause irritation of the skin, eyes, and upper respiratory tract. Use methods suitable for the surrounding fire. Firefighters should wear full protective equipment and clothing.

**Hazard Statements**  
Caution! May cause irritation to eyes, skin and upper respiratory tract.

**Potential Health Effects: Eyes**  
This product may cause irritation to the eyes.

**Potential Health Effects: Skin**  
This product may cause irritation to the skin.

**Potential Health Effects: Ingestion**  
Low oral toxicity. Ingestion of large amounts of this material may cause diarrhea and gastrointestinal discomfort due to its laxative effects.

**Potential Health Effects: Inhalation**  
Dusts and mists from solutions may cause mild to moderate irritation of the nose and throat.

**HMIS Ratings:**  
Health: 1  Fire: 0  Reactivity: 0  Pers. Prot.: chemical goggles, impervious gloves  
Hazard Scale: 0 = Minimal  1 = Slight  2 = Moderate  3 = Serious  4 = Severe  * = Chronic hazard

**Section 4 - First Aid Measures**

**First Aid: Eyes**  
Immediately flush eyes with plenty of water for 15 minutes. If irritation persists, seek medical attention immediately.

**First Aid: Skin**  
If irritation occurs, wash gently and thoroughly with water and non-abrasive soap. If irritation persists, seek medical advice.

**First Aid: Ingestion**  
Immediately give large amounts of water. If vomiting occurs naturally, rinse mouth and repeat administration of water. Obtain medical advice immediately.

**First Aid: Inhalation**  
If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, obtain medical advice immediately.
**Material Safety Data Sheet**

**Material Name:** Magnesium Sulfate Heptahydrate (Epsom Salt)  
**ID:** C1-126

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**First Aid:**

Notes to Physician  
Provide general supportive measures and treat symptomatically.

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### *** Section 5 - Fire Fighting Measures ***

- **Flash Point:** Not applicable  
- **Method Used:** Not applicable  
- **Upper Flammable Limit (UFL):** Not applicable  
- **Lower Flammable Limit (LFL):** Not applicable  
- **Auto Ignition:** Not available  
- **Rate of Burning:** Not applicable  
- **General Fire Hazards:**  
  - This material will not burn.
- **Hazardous Combustion Products:**  
  - This product decomposes to form toxic sulfur dioxide gases.
- **Extinguishing Media:**  
  - Use methods for the surrounding fire.
- **Fire Fighting Equipment/Instructions:**  
  - Firefighters should wear full protective clothing including self contained breathing apparatus.
- **NFPA Ratings:**  
  - **Health:** 1  
  - **Fire:** 0  
  - **Reactivity:** 0  
  - **Other:**  
  - **Hazard Scale:** 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

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### *** Section 6 - Accidental Release Measures ***

- **Containment Procedures:**  
  - Stop or reduce leak if safe to do so.
- **Clean-Up Procedures:**  
  - Prevent material from entering sewers or waterways. Put material in suitable, covered, labelled containers.
- **Evacuation Procedures:**  
  - Keep unnecessary personnel away. Close off area.
- **Special Procedures:**  
  - Wear adequate personal protective equipment. Avoid inhalation of dusts.

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### *** Section 7 - Handling and Storage ***

- **Handling Procedures:**  
  - Avoid inhalation of dusts. Avoid contact with eyes and prolonged skin contact. Use in designated areas with adequate ventilation. Wash hands thoroughly after handling.
- **Storage Procedures:**  
  - Store in a cool, dry area. Store in suitable labeled containers. Keep containers closed--material is hygroscopic.

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### *** Section 8 - Exposure Controls / Personal Protection ***

- **Exposure Guidelines:**  
  - **A: General Product Information:**  
    - No exposure guidelines have been established.  
  - **B: Component Exposure Limits:**  
    - No information is available.
- **Engineering Controls:**  
  - Use general mechanical ventilation. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.
- **PERSONAL PROTECTIVE EQUIPMENT**
  - **Personal Protective Equipment: Eyes/Face:**  
    - Wear safety glasses with side shields or chemical goggles.
  - **Personal Protective Equipment: Skin:**  
    - Wear appropriate work gloves for type of operation.
  - **Personal Protective Equipment: Respiratory:**  
    - None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.
  - **Personal Protective Equipment: General:**  
    - Use good hygiene practices when handling this material including changing and laundering work clothing after use.
*** Section 9 - Physical & Chemical Properties ***

**Appearance:** Colorless to white crystals  
**Odor:** Odorless  
**Physical State:** Solid  
**Odor:** Odorless  
**Vapor Pressure:** 8 mm Hg (at 68 deg. F)  
**pH:** 6-7  
**Boiling Point:** Not applicable  
**Vapor Density:** Not applicable  
**Solubility (H2O):** 340 g/L at 68 deg. F  
**Melting Point:** 118.4 deg F (48.1 deg C)  
**Freezing Point:** Not applicable  
**Specific Gravity:** 1.7 (water=1)  
**Particle Size:** Standard: 0.1-2mm, Fine crystals: <0.8mm  
**Softening Point:** Not applicable  
**Evaporation Rate:** Not applicable  
**Viscosity:** Not applicable  
**Bulk Density:** Standard: 0.95 g/cm³, Fine crystals: 0.92 g/cm³  
**Percent Volatile:** Not available  
**Molecular Weight:** 246.48

Physical Properties: Additional Information
The data provided in this section is to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity or Certificates of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

*** Section 10 - Chemical Stability & Reactivity Information ***

**Chemical Stability**  
Stable  

**Chemical Stability: Conditions to Avoid**  
Avoid heat and overexposure to air (material is hygroscopic).

**Incompatibility**  
None identified.

**Hazardous Decomposition**  
Oxides of sulfur.

**Hazardous Polymerization**  
Will not occur.

*** Section 11 - Toxicological Information ***

**Acute Toxicity**  
**A: General Product Information**  
Acute exposure may cause mild skin and eye irritation. Gastrointestinal absorption may cause acute magnesium poisoning. Symptoms include flushing, sweating, low blood pressure, depression of reflexes, flaccid paralysis, hypothermia, circulatory collapse, and depression of CNS and heart function.

**B: Component LD50/LC50**  
No information is available.

**Carcinogenicity**  
**A: General Product Information**  
Information not available.

**B: Component Carcinogenicity**  
None of this product's components are listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology**  
Information not available.

**Neurotoxicity**  
Information not available.

**Mutagenicity**  
Information not available.

**Teratogenicity**  
Information not available.

**Other Toxicological Information**  
None.
*** Section 12 - Ecological Information ***

Ecotoxicity
No information available.

Environmental Fate
No potential for food chain concentration.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions
A: General Product Information
As shipped, product is not considered a hazardous waste by the EPA.

B: Component Waste Numbers
No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions
Review federal, provincial, and local government requirements prior to disposal. Disposal by controlled incineration or secure landfill may be acceptable.

*** Section 14 - Transportation Information ***

US DOT Information
Shipping Name: Non-regulated
Hazard Class: Not Applicable
UN/NA #: Not Applicable
Packing Group: Not Applicable
Required Label(s): None.
Additional Info.: None.

International Transportation Regulations
I.M.O.: Not regulated as dangerous goods. NOTE: The data in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under I.M.O., I.C.A.O. (I.A.T.A.) and 49 CFR to assure regulatory compliance.

*** Section 15 - Regulatory Information ***

US Federal Regulations
A: General Product Information
Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are either exempt from listing (i.e. polymers, hydrates) or are listed on the confidential inventory as declared by the supplier.

B: Component Information
None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

The following identified ingredients are not on the TSCA Inventory:
10034-99-8 Magnesium Sulfate Heptahydrate

State Regulations
A: General Product Information
Other state regulations may apply.

B: Component Information
None of this product's components are listed on the state lists from CA, FL, MA, MN, NJ, or PA.

Other Regulations
A: General Product Information
Not determined.

B: Component Information (Canada)
No components are listed in the WHMIS IDL
*** Section 16 - Other Information ***

Other Information
Reasonable care has been taken in preparation of this information, but Chem One makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. Chem One makes no representations and assumes no liability for any direct, incidental, or consequential damages resulting from it's use.

Revision Information: Revised 5/16/97

Key/Legend
EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration

Contact Person: Clare Welker
Contact Phone: (713)-896-9966

This is the end of MSDS #C1-126