

Material Safety Data Sheet

Material Name: Magnesium Sulfate Heptahydrate (Epsom Salt)

ID: C1-126

*** 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 77040-6519

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 ***

CAS #	Components	Percent
10034-99-8	Magnesium Sulfate Heptahydrate	>99%

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.

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First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

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

Flash Point: Not applicable

Upper Flammable Limit (UFL): 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

Method Used: Not applicable

Lower Flammable Limit (LFL): Not applicable

Flammability Classification: Not applicable

*** 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.

*** 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.

*** 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.

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*** Section 9 - Physical & Chemical Properties ***

Appearance:	Colorless to white crystals	Odor:	Odorless
Physical State:	Solid	pH:	6-7
Vapor Pressure:	8 mm Hg (at 68 deg. F)	Vapor Density:	Not applicable
Boiling Point:	Not applicable	Melting Point:	118.4 deg F (48.1 deg C)
Solubility (H2O):	340 g/L at 68 deg. F	Specific Gravity:	1.7 (water=1)
Freezing Point:	Not applicable	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/cm ³ , Fine crystals: 0.92 g/cm ³
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.

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*** 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

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*** 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 its 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

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Contact Phone: (713)-896-9966

This is the end of MSDS #C1-126