



Material Safety Data Sheet

Note: This MSDS has been compiled as a response to customer requests. It is not required under current OSHA regulations.

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Chemical Product Name	Magnesium Chloride
Chemical Family	Alkaline Earth Metals
Chemical Name	Magnesium Chloride
Formula	MgCl ₂
Molecular Weight	95.22
Commercial Name	Hydro-Melt Liquid Deicer

Manufacturer

Cargill Incorporated - Salt Division
P.O. Box 5621
Minneapolis, MN 55440

Emergency Telephone Numbers

(952) 984-8214 Minnesota
(510) 790-8604 California

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description

Clear liquid

Ingredient Name

CAS Number	Exposure Limits	Concentration (%)
Magnesium Chloride 7791-18-6		30
Magnesium Sulfate 7487-88-9		1
Triethanolamine 102-71-6		0.5
Water		68.5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Not Applicable

Potential Health Effects**Route(s) Of Entry:**

Human Effects and Symptoms of Overexposure: Ingestion of large amounts (greater than 0.1 pound) can cause gastrointestinal upset and irritation of the stomach. No applicable information found for chronic systemic effects.

Acute Inhalation: May cause mild irritation of nose and throat, unlikely entry route.

Chronic Inhalation: Not applicable

Acute Skin Contact: May cause minor irritation to sensitive person.

Chronic Skin Contact: Not applicable

Acute Eye Contact: May cause irritation and inflammation. Flush eyes with large amounts of water, lifting eyelids

occasionally.

Chronic Eye Contact: Not applicable

Acute Ingestion: Ingestion of large amounts may cause gastrointestinal upset.

Chronic Ingestion: Not applicable

Carcinogenicity

NTP: Not listed as a carcinogen or mutagen.

IARC: Not listed as a carcinogen or mutagen.

OSHA: Not listed as a carcinogen or mutagen.

Medical Conditions Aggravated by Exposure: Possible skin irritation to sensitive persons.

4. FIRST AID MEASURES

First Aid For Eyes: For eye contact, flush with water immediately, lifting eyelids occasionally.

First Aid For Skin: Remove clothing from affected area. Wash skin thoroughly. Rinse carefully.

First Aid For Inhalation: Remove to fresh air. Inhalation is an unlikely entry route.

First Aid For Ingestion: Less than a few grams would not be harmful. For larger quantities, drink large amounts of water or milk.

5. FIRE AND MEASURES

Flash Point: Not Applicable

Extinguishing Media: Not Applicable. This product is nonflammable.

Special Fire Fighting Procedures: May use a self-contained breathing apparatus if temperatures exceed 572° F.

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Contain spills to prevent contamination of water supply or sanitary sewer system. Dispose of according to local requirements.

7. HANDLING AND STORAGE

Storage Temperature (min./max.): Ambient

Special Sensitivity: Not Applicable

Handling and Storage Precautions: Incompatible with sulfuric and nitric acids, caustics, ammonia and cyanides.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection Requirements: Eyeglasses or goggles should be worn.

Skin Protection Requirements: Protective clothing may be worn, but is generally not required. Normal work gloves are adequate. Warm water showering and handwashing is suggested, if in direct contact with product, but is generally not required.

Respiratory/Ventilation Requirements: Not necessary

Exposure Limits:

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Slightly viscous, amber liquid, almost odorless.

Color: Amber liquid.

Odor: Almost odorless.

Boiling Point (760mm Hg) (°C): 108-123

Melt Point/Freeze Point (°C): N/A

PH:

Solubility In Water (g/cc, %): Total

Specific Gravity (H₂O=1): 1.306

Bulk Density: NA

% Volatile By Weight:

Vapor Pressure (mm Hg/747°C): <H₂O

Vapor Density (Air=1): NA

10. REACTIVITY

Stability: Stable

Incompatibilities: Incompatible with sulfuric and nitric acids, caustics, ammonia, and cyanides. A hazardous reaction involving magnesium chloride and 2-furan percarboxylic acid has been reported.

Decomposition Products: May evolve chlorine gas when in contact with strong acids or upon heating. Under normal conditions (<572° F), decomposition should not occur.

11. TOXICOLOGICAL INFORMATION

Description: None found

12. ECOLOGICAL INFORMATION

Ecotoxicity: None found

Environmental Degradation: None found

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: For disposal of this material as a waste, act in accordance with all applicable Federal, State, and Local waste management regulations.

14. TRANSPORTATION INFORMATION

D.O.T. Shipping Name: Not Applicable

Technical Shipping Name: Not Applicable

D.O.T Hazard Class: Not Applicable

U.N./N.A. Number: Not Applicable

Product Rq (lbs.): Not Applicable

D.O.T. Label: Not Applicable

D.O.T. Placard: Not Applicable

Freight Class Bulk: Not Applicable

Freight Class Package: Not Applicable

Product Label: N/A

15. REGULATORY INFORMATION

OSHA Status: Not Listed

TSCA Status: Not Listed

Cercla reportable Quantity

SARA Title III

Section 302 Extremely

Hazardous Substances: Not Listed

Section 311/312

Hazard categories: Not an OSHA hazardous material.

Section 313

Toxic Chemicals: Not Listed

RCRA Status: Not Listed

State Regulatory Information

Component Name

/CAS Number

Concentration

State-Code

16. OTHER INFORMATION

Reason For Issue: Regulatory Communication

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Title: Director-Quality Administration

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