



Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Chemical Product Name	Magnesium Chloride, Magnesium Sulfate
Chemical Family	Alkali Metal/Halide
Chemical Name	Aqueous Magnesium Chloride and Magnesium Sulfate
Formula	MgCl ₂
Molecular Weight	95.22
Commercial Name	Dust-Off® Dust Suppressant

Manufacturer
Cargill Salt
P. O. Box 364
Newark, CA 94560.0364

Emergency Telephone Numbers
CHEMTREC (800) 424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description
Clear liquid.

Ingredient Name	Exposure Limits	Concentration (%)
CAS Number		
Magnesium Chloride 7786-30-3		29 - 33
Magnesium Sulfate 7487-88-9		1.0 - 3.8
Water		63 - 70

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

None

Potential Health Effects

Route(s) Of Entry: Inhalation, Skin, Ingestion.

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

Acute Inhalation: Mist may cause slight irritation of nose; unlikely entry route.

Chronic Inhalation: Not Applicable

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

Chronic Skin Contact: Not Applicable

Acute Eye Contact: Irritation; inflammation.

Chronic Eye Contact: Not Applicable

Acute Ingestion: May cause nausea or vomiting.

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 eyes with large amounts of water, lifting eyelids occasionally.

First Aid For Skin: Flush with water.

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 300 degrees F. (149 degrees C.).

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.):

Special Sensitivity: Do not apply directly to plant foliage or root zones, as concentrated magnesium chloride solutions may cause partial or complete defoliation. This product is designed to control dust on unpaved surfaces. Application of excessive amounts of Dust-Off directly adjacent to or directly upon paved surfaces may result in slippery conditions which present a safety hazard for foot and vehicular traffic.

Handling and Storage Precautions: Prolonged storage or subjecting the materials to temperatures below 30 degrees F. (-1 degree C.) can result in the formation of magnesium sulfate crystals. May evolve chlorine gas when in contact with strong acids or upon heating above 300 degrees F (149 degrees C.) Under normal applications, decomposition should not occur. Incompatible with sulfuric and nitric acids, caustics, ammonia and cyanides. A hazardous reaction involving magnesium chloride and 2-furan percarboxylic acid has been reported.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Eye Protection Requirements: Eyeglasses or goggles may be worn.

Skin Protection Requirements: Normal work gloves are adequate. Protective clothing may be worn, but is generally not required. 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: Not Applicable

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Slightly viscous, brown/amber liquid with a slight saline odor.

Color: Brown/amber liquid

Odor: Slight saline odor.

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

Melt Point/Freeze Point (°C): N/A

PH: 5.5 – 6.5

Solubility In Water (g/cc, %): 100%

Specific Gravity (H₂O=1): 1.306

Bulk Density:

% Volatile By Weight:

Vapor Pressure (mm Hg/30°C): 7.5

Vapor Density (Air=1): N/A

10. REACTIVITY

Stability: Stable

Incompatibilities: Avoid contact with strong acids. 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 above 300 degrees F. (149 degrees C.). Under normal applications, decomposition should not occur.

11. TOXICOLOGICAL INFORMATION

Description: Not Listed

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not Listed

Environmental Degradation: Not Listed

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 Listed

Technical Shipping Name: Not Listed

D.O.T Hazard Class: Not Listed

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

Product Rq (lbs.): Not Listed

D.O.T. Label: Not Listed

D.O.T. Placard: Not Listed

Freight Class Bulk: Not Listed

Freight Class Package: Not Listed

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 Listed

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

Prepared By: Steve Karl

Approved By: Sarah Hubert

Title: Director-Quality Administration
Approval Date: June 2010
Supersedes Date: May 2007
MSDS Number: ND11

Disclaimer: All statements, technical information and recommendations contained herein are, the best of our knowledge, reliable and accurate; however no warranty, either expressed or implied is made with respect thereto, nor will any liability be assumed for damages resultant from the use of the material described.

It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations. It is also the responsibility of the user to maintain a safe workplace. The user should consider the health hazards and safety information provided herein as a guide and should take the necessary steps to instruct employees and to develop work practice procedures to ensure a safe work environment.

This information is not intended as a license to operate under, or a recommendation to practice or infringe upon any patent of this Company or others covering any process, composition of matter or use.