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: MgCl₂
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
CAS Number
Exposure Limits Concentration (%)
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/PERSOAL 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) (ºC): 108-123º
   Melt Point/Freeze Point (ºC): 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/30ºC): 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

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