# **SAFETY DATA SHEET**



1. Identification

Product identifier DUSTOF

**DUSTOFF® Dust Suppressant** 

Other means of identification

SDS number

ND11

Synonyms

Aqueous Magnesium Chloride and Magnesium Sulfate. \* Magnesium Chloride, Magnesium

Sulfate.

Recommended use

Industrial and agricultural applications

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

Cargill Incorporated

Address

Minneapolis, MN 55440

Telephone

1-888-385-7258

Website

www.cargillsalt.com

Emergency telephone

CHEMTREC (800) 424-9300

number

2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Not classified.

Environmental hazards

Hazardous to the aquatic environment, acute

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hazard

110

Hazardous to the aquatic environment, long-term hazard

Category 3

Category 3

OSHA defined hazards

Not classified.

Label elements

Hazard symbol

None.

Signal word

None.

Hazard statement

The mixture does not meet the criteria for classification.

Precautionary statement

Prevention

Observe good industrial hygiene practices.

Response

Wash hands after handling.

Storage

Store away from incompatible materials.

Disposal

Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)

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.

## 3. Composition/information on ingredients

#### **Mixtures**

nemical name CAS number		%	
Water	7732-18-5	63-70	
Magnesium chloride	7786-30-3	29-33	
Magnesium sulfate	7487-88-9	1.0-3.8	

#### 4. First-aid measures

In case of inhalation of spray mist: Move person into fresh air and keep at rest. Call a physician if

symptoms develop or persist.

Skin contact Eye contact

Ingestion

Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists.

Give one or two glasses of water if patient is alert and able to swallow. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and delayed

Accidental exposure or contact might produce: Irritant effects.

Indication of immediate

medical attention and special treatment needed

Treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). None known.

Specific hazards arising from the chemical

Special protective equipment

During fire, gases hazardous to health may be formed.

and precautions for firefighters Fire fighting

Use water spray to cool unopened containers.

equipment/instructions Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards

This product is not flammable or combustible.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapors. Keep unnecessary personnel away. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Avoid release to the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. Dike the spilled material, where this is possible. Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Avoid contact with eyes. Keep away from sulfuric and nitric acids, caustics, ammonia and cyanides. Practice good housekeeping. May evolve chlorine gas when in contact with strong acids or upon heating above 300 degrees F (149 degrees C). A hazardous reaction involving magnesium chloride and 2-furan percarboxylic acid has been reported. 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.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Prolonged storage or subjecting the materials to temperatures below 30 degrees F (-1 degree C) can result in the formation of magnesium sulfate crystals.

## 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Provide adequate ventilation and minimize the risk of inhalation of mists.

Individual protection measures, such as personal protective equipment

Eve/face protection

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Wear safety glasses with side shields (or goggles).

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Skin protection

Hand protection-

Wear appropriate chemical resistant gloves.

Other

Wear suitable protective clothing.

Respiratory protection

Provide sufficient ventilation for operations causing mist formation. In case of inadequate

ventilation or risk of inhalation of mist, use suitable respiratory equipment with particle filter.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

### 9. Physical and chemical properties

Appearance

Clear liquid.

Physical state

Liquid.

Form

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

Color

Brown or amber.

Odor

Slight saline odor.

Odor threshold

Not available.

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling

226.4 - 253.4 °F (108 - 123 °C) (760 mm Hg)

range

Not available.

Flash point **Evaporation rate** 

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

7.5 mm Hg (86 °F (30 °C)) Not available.

Vapor density Relative density

1.306 (H2O=1)

Solubility(ies)

Solubility (water)

100 %

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature Decomposition temperature Not available. Not available.

Other information

Not available.

Viscosity

Molecular formula

MgCl2 95.22

Molecular weight

5.5 - 6.5

## 10. Stability and reactivity

pH in aqueous solution

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

A hazardous reaction involving magnesium chloride and 2-furan percarboxylic acid has been reported.

Conditions to avoid

Contact with incompatible materials.

Incompatible materials

Avoid contact with strong acids. Incompatible with sulfuric and nitric acids, caustics, ammonia and

cyanides.

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Hazardous decomposition

products

May evolve chlorine gas when in contact with strong acids or upon heating above 300 degrees F

(149 degrees C).

# 11. Toxicological information

Information on likely routes of exposure

Spray mist may irritate the respiratory system. Inhalation

Skin contact

Prolonged or repeated skin contact may cause irritation.

Eye contact

Mild eve irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Eye and skin contact: Exposure may cause temporary irritation, redness, or discomfort.

Information on toxicological effects

Acute toxicity

Ingestion of large amounts can cause gastrointestinal upset and irritation of the stomach.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eve damage/eye

May cause slight eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not available.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not available.

#### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential Mobility in soil

No data available. No data available.

Other adverse effects

Do not apply directly to plant foliage or root zones, as concentrated magnesium chloride solutions may cause partial or complete defoliation.

13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

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### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Not available.

Annex II of MARPOL 73/78 and

the IBC Code

#### 15. Regulatory information

**US** federal regulations

All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200. Personal protection: A

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Australia

Australian Inventory of Chemical Substances (AICS)

Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes .
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

## 16. Other information, including date of preparation or last revision

Issue date

29-August-2014

Revision date

01

Version #

Health: 1

HMIS® ratings

Flammability: 0 Physical hazard: 0

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

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<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).