

# SAFETY DATA SHEET

# 1. Product and Company Identification

**Product identifier** Magnesium Chloride Hexahydrate

Other means of identification Freez Gard® Magnesium Chloride, Safe Step® Extreme 8300® Magnesium Chloride,

Industrial Flake, Safe Step Pro Mag Chloride (Safe Step® Pro Series® 750 Magnesium Chloride), Sifto® Safe Step® Nature's Power® Magnesium Chloride, Safe Step® Sure Paws®,

Sifto® Safe Step® Sure Paws®

**Synonyms** Not available.

Recommended use Dust suppression, deicing, general industrial, and specialty uses.

**Recommended restrictions** None known.

Manufacturer information Compass Minerals America Inc.

9900 West 109th Street, Suite 100 Overland Park, KS 66210 US

Phone 913-344-9100

**Supplier** Compass Minerals Canada Corp

> 6700 Century Avenue Mississauga L5N 6A4 CA Phone 1-905-567-0231

**CHEMTREC** 1-800-424-9300 **CANUTEC** 1-613-996-6666

## 2. Hazards Identification

Not classified. Physical hazards **Health hazards** Not classified. **Environmental hazards** Not classified. WHMIS 2015 defined hazards Not classified.

Label elements

None. **Hazard symbol** Signal word None.

**Hazard statement** The substance does not meet the criteria for classification.

**Precautionary statement** 

Observe good industrial hygiene practices. Prevention

Response Wash hands after handling.

Store away from incompatible materials. Storage

None known.

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

WHMIS 2015: Health Hazard(s) not otherwise classified

(HHNOC)

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

Hazard(s) not otherwise

classified (HNOC)

None known.

None known.

**Supplemental information** Not applicable.

# 3. Composition/Information on Ingredients

# **Substance**

Non hazardous by WHMIS Criteria.

**Composition comments** The criteria for listing components in this section are: Carcinogens, Respiratory Sensitizers,

Mutagens, Teratogens and Reproductive toxins are listed when present at 0.1% or greater; components which are otherwise hazardous according to WHMIS/OSHA are listed when present at 1.0% or greater. Non-hazardous components are not listed. The products pertaining to this SDS

have various proportions of components which do not meet the listing criteria.

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4. First Aid Measures Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists. Skin contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical Eye contact attention if irritation persists. Rinse mouth. Never give anything by mouth if victim is unconscious or is convulsing. If ingestion of Ingestion a large amount does occur, call a poison control center immediately. Get medical attention if symptoms occur. **Most important** Direct contact with eyes may cause temporary irritation. symptoms/effects, acute and delayed Indication of immediate Treat symptomatically. medical attention and special treatment needed **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 Treat for surrounding material. Unsuitable extinguishing None known. media Specific hazards arising from During fire, gases hazardous to health may be formed. the chemical Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Special protective equipment and precautions for firefighters Fire-fighting Use standard firefighting procedures and consider the hazards of other involved materials. equipment/instructions Specific methods Cool containers exposed to flames with water until well after the fire is out. General fire hazards No unusual fire or explosion hazards noted. **Hazardous combustion** May include and are not limited to: Hydrogen chloride. Chlorine gas. Oxides of magnesium. products 6. Accidental Release Measures Personal precautions, Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. protective equipment and emergency procedures Methods and materials for Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills containment and cleaning up from entering sewers or waterways. Contact emergency services and supplier for advice. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. **Environmental precautions** 7. Handling and Storage Precautions for safe handling Avoid contact with eyes, skin and clothing. Avoid breathing mist or vapor. Use care in handling/storage. Conditions for safe storage, Keep container tightly closed in a cool, dry and well-ventilated place. including any incompatibilities Store away from incompatible materials (see Section 10 of the SDS). 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

TWA PEL: No specific limits have been established for magnesium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits, which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for magnesium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits, which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses.

Skin protection

Protective gloves. Confirm with a reputable supplier first. **Hand protection** 

Other As required by employer code.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator or Respiratory protection

NIOSH-approved filtering facepiece.

Thermal hazards Not applicable.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and Chemical Properties

Solid. **Appearance** Solid. Physical state **Form** Crystalline. Color White. Odor Odorless. **Odor threshold** Not available. 9 - 10 (Basic) Melting point/freezing point Not available.

Initial boiling point and boiling

range

Not applicable.

Not applicable. Pour point 1.57 (H2O = 1)Specific gravity **Partition coefficient** Not available.

(n-octanol/water)

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Non-flammable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Non-flammable.

(%)

Flammability limit - upper

Non-flammable.

**Explosive limit - lower (%)** Non-flammable. **Explosive limit - upper (%)** Non-flammable.

Vapor pressure 0.09 kPa (0.7 mmHg) @ 68°C

Vapor density Not available. Relative density Not available. Soluble. Solubility(ies) Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not applicable. **Viscosity** 

# 10. Stability and Reactivity

Reactivity May react with incompatible materials. Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability Material is stable under normal conditions. Contact with incompatible materials. Conditions to avoid

Incompatible materials

Acids. Strong oxidizing agents. Metals.

Hazardous decomposition

products

May include and are not limited to: Hydrogen chloride. Chlorine gas. Oxides of magnesium.

# 11. Toxicological Information

### Information on likely routes of exposure

Not available. Ingestion

Inhalation No adverse effects due to inhalation are expected. Skin contact No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

**Acute toxicity** Not available.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

**Exposure minutes** Not available. Erythema value Not available. Not available. Oedema value

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Corneal opacity value Not available. Iris lesion value Not available. Conjunctival reddening Not available.

value

Conjunctival oedema value Not available. Not available. Recover days

Respiratory or skin sensitization

Not classified. Respiratory sensitization

Skin sensitization This product is not expected to cause skin sensitization.

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

mutagenic or genotoxic.

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

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

Not classified. **Teratogenicity** Specific target organ toxicity -Not classified. single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not classified. **Chronic effects** Not classified

## 12. Ecological Information

**Ecotoxicity** Not available.

Persistence and degradability No data is available on the degradability of this product.

**Bioaccumulative** potential No data available. Mobility in soil No data available. Mobility in general Not available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, global warming potential) are expected from this component.

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

Dispose in accordance with all applicable regulations. Local disposal 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

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).

Empty containers should be taken to an approved waste handling site for recycling or disposal. **Contaminated packaging** 

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport Information

**Transport of Dangerous Goods** (TDG) Proof of Classification

In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

### Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

# 15. Regulatory Information

# Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

### Export Control List (CEPA 1999, Schedule 3)

Not listed

#### **Greenhouse Gases**

Not listed.

#### **Precursor Control Regulations**

Not regulated.

WHMIS 2015 Exemptions

Not controlled.

# **US** federal regulations

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

Not regulated.

# **CERCLA Hazardous Substance List (40 CFR 302.4)**

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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

Nο

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

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

Not regulated.

#### See below **US state regulations**

### **US. Massachusetts RTK - Substance List**

Not regulated.

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

Not regulated.

# 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.

#### Inventory status

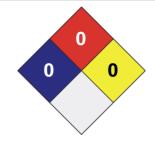
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

# 16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.