

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

FreezGard CI Plus **Product Name**

CAS# Mixture **Product use** De-icer.

Manufacturer **Great Salt Lake Minerals Corporation**

9900 West 109th Street, Suite 600 Overland Park, KS 66210 US

Phone: 913-344-9300

Supplier North American Salt Company AND

9900 West 109th Street, Suite 600

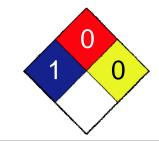
Overland Park, KS 66210 US Phone: 913-344-9200

Website: www.compassminerals.com

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

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Sifto Canada, Inc.

L5N 6A4, Canada Phone: 905-567-0231

Mississauga, Ontario

6700 Century Ave., Suite 202

2. Hazards Identification

CAUTION **Emergency overview**

MAY CAUSE EYE AND SKIN IRRITATION.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

May cause mechanical irritation. **Eyes** Skin May cause mechanical irritation. May cause respiratory tract irritation. Inhalation

May cause stomach distress, nausea or vomiting. Ingestion

Eyes. Respiratory system. Skin. **Target organs**

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Water	7732-18-5	40 - 70
Magnesium chloride, hexahydrate	7791-18-6	15 - 40

4. First Aid Measures

First aid procedures

Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Eye contact

Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Ingestion

Obtain medical attention. Never give anything by mouth if victim is unconscious, or is

Notes to physician

Symptoms may be delayed.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that

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

themselves. Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media Treat for surrounding material.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products

May include and are not limited to: Hydrogen chloride. Chlorine gas. Halogenated

compounds.

Explosion data

Sensitivity to mechanical

impact

Sensitivity to static discharge

Not available

Not available

6. Accidental Release Measures

Personal precautions 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. Finish cleaning by spreading water on the affected surface and dispose of

according to local and regional authority requirements.

Methods for containment

Methods for cleaning up

None necessary.

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. Finish cleaning by spreading water on the affected surface and dispose of

according to local and regional authority requirements.

7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material.

Storage

Keep out of reach of children. Store in a closed container away from incompatible

materials.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s) **Exposure Limits**

Magnesium chloride, hexahydrate **ACGIH-TLV** Not established

OSHA-PEL Not established

Water **ACGIH-TLV**

> Not established **OSHA-PEL** Not established

Engineering controls General ventilation normally adequate. Personal protective equipment

Wear safety glasses with side shields. Eye / face protection

Rubber gloves. Confirm with a reputable supplier first. Hand protection

Skin and body protection As required by employer code.

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

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance Opaque.

Light brown - Dark brown Color

Liquid **Form** Odor Odorless Not Available Odor threshold Liquid Physical state pН 7 - 9

Melting point Not Applicable

A typical 30% solution has an approximate freeze point of -1°F (-18°C) assuming Freezing point

maintenance of solution homogeneity and prevention of stratification from static storage.

Boiling point 107.2 °C (224.96 °F)

Not available Flash point Not Available **Evaporation rate** Flammability limits in air, lower, % Not available

by volume

Flammability limits in air, upper, %

by volume

Not available

Not Available Vapor pressure Not Available Vapor density

1.29 for a typical 30% solution Specific gravity

Not Available Relative density Not available Octanol/water coefficient

Solubility (H2O) Easily soluble in cold water, hot water, methanol, acetone.

Auto-ignition temperature Not available

Viscosity Dilution may alter physical and chemical properties, affecting product performance

Percent volatile Not available

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Do not mix with other chemicals. Conditions to avoid

Oxidizers, Acids, Incompatible materials

Hazardous decomposition products May include and are not limited to: Hydrogen chloride. Chlorine gas. Halogenated

compounds.

Hazardous polymerization does not occur. Possibility of hazardous reactions

11. Toxicological Information

Component analysis - LC50

Ingredient(s) **LC50**

Magnesium chloride, hexahydrate Not available

Water Not available

Component	analysis -	Oral	LD50
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Magnesium chloride, hexahydrate	8100 mg/kg rat; 7600 mg/kg mouse
Water	14500 mg/kg rat

LD50

Effects of acute exposure

Ingredient(s)

May cause mechanical irritation. Eve Skin May cause mechanical irritation. Inhalation May cause respiratory tract irritation.

May cause stomach distress, nausea or vomiting. Ingestion

Non-hazardous by WHMIS/OSHA criteria. Not classified or listed by IARC, NTP, OSHA Sensitization

and ACGIH.

Chronic effects Non-hazardous by WHMIS/OSHA criteria. Not classified or listed by IARC, NTP, OSHA

and ACGIH.

Non-hazardous by WHMIS/OSHA criteria. Not classified or listed by IARC, NTP, OSHA Carcinogenicity

and ACGIH.

Non-hazardous by WHMIS/OSHA criteria. Not classified or listed by IARC, NTP, OSHA Mutagenicity

and ACGIH.

Non-hazardous by WHMIS/OSHA criteria. Not classified or listed by IARC, NTP, OSHA Reproductive effects

and ACGIH.

Non-hazardous by WHMIS/OSHA criteria. Not classified or listed by IARC, NTP, OSHA **Teratogenicity**

and ACGIH.

12. Ecological Information

Ecotoxicity	Maybe harmful to freshwater aquatic species and to plants that are not saline tolerant.
Environmental effects	Not available
Aquatic toxicity	Not available
Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available

Mobility in environmental media Not available Not available Chemical fate information

13. Disposal Considerations

Waste codes Not available

Dispose in accordance with all applicable regulations. Disposal instructions

Waste from residues / unused

products

Not available

Not available Contaminated packaging

14. Transport Information

Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG)

Not regulated as dangerous goods.

15. Regulatory Information

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

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

Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

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29 CFR 1910.1200 hazardous No

chemical

CERCLA (Superfund) reportable quantity

None

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

Section 302 extremely

hazardous substance

Section 311 hazardous chemical No

Clean Air Act (CAA)

Clean Water Act (CWA)

Safe Drinking Water Act (SDWA)

Drug Enforcement Agency (DEA)

Food and Drug Administration

Not available

Not available

(FDA)

WHMIS status Not Controlled

State regulations This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

Inventory name

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryNo

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

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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