

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name FreezGard CI Plus

CAS # Mixture
Product use De-icer

Manufacturer Great Salt Lake Minerals Corporation

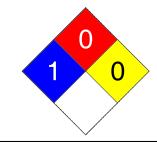
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CHEMTREC 1-800-424-9300 **CANUTEC** 1-613-996-6666

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





2. Hazards Identification

Emergency overview CAUTION

Contact may cause eye and skin irritation.

Potential short term health effects

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

Eyes May cause irritation.
Skin May cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin.

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
Corrosion Inhibitor Complex	Mixture	1 - 5

4. First Aid Measures

First aid procedures

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

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

attention.

Ingestion Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

5. Fire Fighting Measures

Not flammable by WHMIS/OSHA criteria. Flammable properties

Extinguishing media

Treat for surrounding material. Suitable extinguishing media

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

May include and are not limited to: Hydrogen chloride. Chlorine gas. Oxides of Hazardous combustion products

magnesium.

Explosion data

Sensitivity to mechanical

impact

Not available

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Personal precautions

Methods for containment Methods for cleaning up

Follow standard industrial hygiene practices.

Prevent entry into waterways, sewers, basements or confined areas.

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. Never return spills in original containers for re-use.

7. Handling and Storage

Handling Storage

Use good industrial hygiene practices in handling this material.

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	
Corrosion Inhibitor Complex	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
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

Eve / face protection

Wear safety glasses with side shields.

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

Skin and body protection As required by employer code.

Respiratory protection

Normal use of this product is not expected to warrant the use of respiratory protection. Where exposure guidelines may be exceeded (enclosed, unventilated areas), use an

approved NIOSH respirator.

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 and Chemical Properties

Opaque. **Appearance**

Color Light brown - Dark brown

Form Liquid Odor Odorless Odor threshold Not Available Liquid Physical state

7 - 9 рΗ **Melting point** Not Applicable

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

224.96 °F (107.2 °C) **Boiling point**

Not available Pour point **Evaporation rate** Not Available Not available Flash point Not available **Auto-ignition temperature** Flammability limits in air, lower, % Not available

by volume

Not available

Flammability limits in air, upper, %

by volume

Vapor pressure

Not Available

Vapor density Not Available 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. Viscosity Dilution may alter properties, affecting product performance

Not available Percent volatile

10. Stability and Reactivity

Stable under recommended storage conditions. Chemical stability

Do not mix with other chemicals. Conditions to avoid

Incompatible materials Oxidizers. Acids.

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

magnesium.

Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50 Ingredient(s) LC50 Not available Corrosion Inhibitor Complex Magnesium chloride, hexahydrate Not available Water Not available

Component a	analvsis -	Oral	LD50
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Ingredient(s)	LD50
Corrosion Inhibitor Complex	Not available
Magnesium chloride, hexahydrate	8100 mg/kg rat
Water	14500 mg/kg rat

Effects of acute exposure

EyeMay cause irritation.SkinMay cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Chronic effects

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Mutagenicity

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Synergistic Materials Not available

12. Ecological Information

Environmental effects
Aquatic toxicity
Not available
Persistence / degradability
Bioaccumulation / accumulation
Partition coefficient
Nay be harmful to freshwater aquatic species and to plants that are not saline tolerant.
Not available
Not available
Not available
Not available

Partition coefficient

Mobility in environmental media

Chemical fate information

Other adverse effects

Not available

Not available

13. Disposal Considerations

Waste codes Not available

Disposal instructionsReview federal, state/provincial, and local government requirements prior to disposal.

Not available

Waste from residues / unused

products

Contaminated packaging Not available

14. Transport Information

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 Controlled

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.

Occupational Safety and Health Administration (OSHA)

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)

WHMIS status

Not available

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 region Inventory name On inventory (yes/no)*

CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

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