

## 1. Product and Company Identification

<b>Product identifier</b>	<b>Calcium Chloride</b>
<b>Other means of identification</b>	IceAway Max Safe Step Extreme 7300 Calcium Chloride
<b>Recommended use</b>	De-icer.
<b>Recommended restrictions</b>	None known.
<b>Manufacturer</b>	Compass Minerals International 9900 West 109th Street, Suite 100 Overland Park, KS 66210 US Phone 913-344-9200 Emergency US CHEMTREC 1-800-424-9300 Emergency Canada CANUTEC 1-613-996-6666
<b>CHEMTREC</b>	1-800-424-9300
<b>CANUTEC</b>	1-613-996-6666

## 2. Hazards Identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Serious eye damage/eye irritation	Category 2A
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



<b>Signal word</b>	Warning
<b>Hazard statement</b>	Harmful if swallowed. Causes serious eye irritation.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection.
<b>Response</b>	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	100% of the mixture consists of component(s) of unknown acute inhalation toxicity.

## 3. Composition/Information on Ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	%
Calcium chloride		10043-52-4	60-100
Composition comments	US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.		

## 4. First Aid Measures

<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Skin contact</b>	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
<b>Eye contact</b>	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

<b>Ingestion</b>	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.
<b>Most important symptoms/effects, acute and delayed</b>	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat patient symptomatically.
<b>General information</b>	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. Avoid contact with eyes. Keep out of reach of children.

## 5. Fire Fighting Measures

<b>Suitable extinguishing media</b>	Dry chemical, CO2, water spray or regular foam.
<b>Unsuitable extinguishing media</b>	Not available.
<b>Specific hazards arising from the chemical</b>	Firefighters should wear a self-contained breathing apparatus.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Fire-fighting equipment/instructions</b>	In the event of fire, cool tanks with water spray. Cool containers with flooding quantities of water until well after fire is out.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	May include and are not limited to: Hydrogen chloride. Chlorine gas. Calcium oxide
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available.
<b>Sensitivity to static discharge</b>	Not available.

## 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Do not discharge into lakes, streams, ponds or public waters.

## 7. Handling and Storage

<b>Precautions for safe handling</b>	Avoid contact with eyes. Avoid breathing dust. Use only with adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash thoroughly after handling. When using do not eat or drink.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

## 8. Exposure Controls/Personal Protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).

<b>Exposure guidelines</b>	<p>TWA PEL: No specific limits have been established for calcium chloride (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.</p> <p>TWA TLV: No specific limits have been established for calcium chloride (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.</p>
<b>Appropriate engineering controls</b>	Ensure adequate ventilation.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Wear suitable gloves.
<b>Other</b>	As required by employer code.
<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
<b>Thermal hazards</b>	Not applicable.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using do not eat or drink.

## 9. Physical and Chemical Properties

<b>Appearance</b>	Pellets
<b>Physical state</b>	Solid.
<b>Form</b>	Solid.
<b>Color</b>	White
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Not applicable
<b>pH</b>	Not available
<b>Melting point/freezing point</b>	1421.6 °F (772 °C)
<b>Initial boiling point and boiling range</b>	3515 °F (1935 °C)
<b>Pour point</b>	Not applicable
<b>Specific gravity</b>	Not available
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not applicable
<b>Vapor density</b>	Not applicable
<b>Relative density</b>	0.75 g/cm <sup>3</sup> @ 20°C
<b>Solubility(ies)</b>	745 g/l
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not applicable

## 10. Stability and Reactivity

<b>Reactivity</b>	This product may react with oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Oxidizers. Hot water.
<b>Hazardous decomposition products</b>	May include and are not limited to: Chlorine gas. Calcium oxide. Hydrogen chloride.

## 11. Toxicological Information

<b>Routes of exposure</b>	Eye, Skin contact, Inhalation, Ingestion.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Not a normal route of exposure. May cause stomach distress, nausea or vomiting.
<b>Inhalation</b>	Not a normal route of exposure. May cause respiratory tract irritation.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

### Information on toxicological effects

<b>Acute toxicity</b>	Harmful if swallowed.
-----------------------	-----------------------

Components	Species	Test Results
Calcium chloride (CAS 10043-52-4)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	2630 mg/kg
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Mouse	1940 mg/kg
	Rat	1000 mg/kg

<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
----------------------------------	--

<b>Exposure minutes</b>	Not available.
-------------------------	----------------

<b>Erythema value</b>	Not available.
-----------------------	----------------

<b>Oedema value</b>	Not available.
---------------------	----------------

<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
--	--------------------------------

<b>Corneal opacity value</b>	Not available.
------------------------------	----------------

<b>Iris lesion value</b>	Not available.
--------------------------	----------------

<b>Conjunctival reddening value</b>	Not available.
-------------------------------------	----------------

<b>Conjunctival oedema value</b>	Not available.
----------------------------------	----------------

<b>Recover days</b>	Not available.
---------------------	----------------

### Respiratory or skin sensitization

<b>Respiratory sensitization</b>	Not available.
----------------------------------	----------------

<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
---------------------------	---

<b>Germ cell mutagenicity</b>	Not classified.
-------------------------------	-----------------

<b>Mutagenicity</b>	Not classified.
---------------------	-----------------

<b>Carcinogenicity</b>	Not classified or listed by IARC, NTP, OSHA and ACGIH.
------------------------	--

<b>Reproductive toxicity</b>	Not classified.
------------------------------	-----------------

<b>Teratogenicity</b>	Not classified.
-----------------------	-----------------

<b>Specific target organ toxicity - single exposure</b>	Not classified.
---	-----------------

<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
---	-----------------

<b>Aspiration hazard</b>	Not classified.
--------------------------	-----------------

<b>Chronic effects</b>	Not available.
------------------------	----------------

<b>Further information</b>	Not available.
----------------------------	----------------

---

**12. Ecological Information**

---

**Ecotoxicity** See below**Components****Species****Test Results**

Calcium chloride (CAS 10043-52-4)

Crustacea

EC50

Daphnia

52 mg/L, 48 Hours

**Aquatic**

Fish

LC50

Fathead minnow (*Pimephales promelas*) 3930 - 5360 mg/l, 96 hours**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, endocrine disruption, global warming potential) are expected from this component.

---

**13. Disposal Considerations**

---

**Disposal instructions** Dispose of contents/container in accordance with local/regional/national/international regulations.**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** 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.

---

**14. Transport Information**

---

**General** Canada: 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. If applicable, the technical name and the classification of the product will appear below.**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 SDS contains all the information required by the Controlled Products Regulations.**Canada Priority Substances List (Second List): Listed substance**

Calcium chloride (CAS 10043-52-4)

Listed.

**WHMIS status** Controlled**WHMIS classification** Class D - Division 2B**WHMIS labeling****US federal regulations** This product is 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.**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

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

Not listed.

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

Not regulated.

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

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**  
No

**SARA 311/312 Hazardous chemical**  
No

**SARA 313 (TRI reporting)**  
Not regulated.

**Other federal regulations**

**Safe Drinking Water Act (SDWA)**  
Not regulated.

**Food and Drug Administration (FDA)**  
Not regulated.

**US state regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Not listed.

**US - Texas Effects Screening Levels: Listed substance**

Calcium chloride (CAS 10043-52-4) Listed.

**US. Massachusetts RTK - Substance List**

Not regulated.

**US. Pennsylvania RTK - Hazardous Substances**

Not regulated.

**US. Rhode Island RTK**

Not regulated.

**Inventory status**

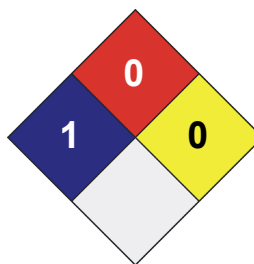
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*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

HEALTH	/ 1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

**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.

**Issue date** 24-June-2015

**Effective date** 15-June-2015

**Expiry date** 15-June-2018

**Further information** For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

**Prepared by** Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

**Other information**

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.