

Minerals International, LLC  
Frost Bite® - Ice Melt  
Solid Commercial Deicer  
Safety Data Sheet

**Section 1: IDENTIFICATION**

**PRODUCT IDENTIFIER**

**FROST BITE® - ICE MELT**  
Solid Commercial Deicer

**RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE**

Deicing/anti-icing highways, bridges, parking lots, and other pavements.

**DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

**Name/Address:** PO Box 222  
Richboro, PA 18954

**Contact Information:** Telephone: 203-309-6644  
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Email: [MineralsIntl@verizon.net](mailto:MineralsIntl@verizon.net)  
Website: [WWW.MineralsInternational.net.com](http://WWW.MineralsInternational.net.com)

**EMERGENCY TELEPHONE NUMBER**

CHEMTREC (800) 424-9300  
Outside continental USA (703) 527-3887

**Section 2: HAZARD(S) IDENTIFICATION**

**CLASSIFICATION ACCORDING TO OSHA HAZCOM 2012**

Hazard Class Not classified as hazardous

**LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012**

There are no OSHA required label elements for this product.

**CLASSIFICATION ACCORDING TO WHMIS (Canada)**

Hazard Class Not controlled  
WHMIS Hazard Symbols Not applicable  
WHMIS Signal Word Not applicable

**POTENTIAL HEATH EFFECTS**

**Eye Contact** May cause temporary eye irritation. Corneal injury is unlikely.  
**Skin Contact** Repeated contact may cause slight skin irritation or dry skin.  
**Inhalation** may cause irritation or coughing.  
**Ingestion** Ingestion of large quantities may cause nausea, vomiting, diarrhea and abdominal discomfort.  
**Effects of repeated exposure** No effects other than described above are expected.

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

**COMPOSITION:** Frost Bite® is a blend of four ice melting chemicals.

#### MIXTURES

Ingredient	CAS No	Wt. %
Sodium Chloride	7647-14-5	90% - 95%
Calcium Chloride	10043-52-4	Proprietary
Potassium Acetate	127-08-02	Proprietary
CMA	76123-46-1	Proprietary

### Section 4: FIRST-AID MEASURES

#### DESCRIPTION OF FIRST AID MEASURE

**Eye** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, seek medical attention.

**Skin** As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

**Inhalation** If inhaled, move to fresh are and get medical advice.

**Ingestion** If swallowed, give mil or water to drink and telephone for medical advice. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

#### MOST IMPORTANT SYMPTIOMS / EFFECTS

**Eye** May cause eye irritation. Symptoms may include temporary discomfort or pain, excess blinking and tear production, with possible redness and swelling.

**Skin** As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

**Inhalation** Inhalation of dust during handling may cause respiratory tract irritation and coughing.

**Ingestion** Ingestion of large quantities may cause nausea, vomiting, diarrhea and abdominal discomfort.

#### INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT

**Specific treatments** If you fell unwell, seek medical advice immediately. Show the label or safety data sheet to medical personnel if possible.

## Section 5: FIRE FIGHTING MEASURES

### FLAMMABILITY

**Flash Point (close up)** Nonflammable by OSHA/WHMIS criteria

**Auto Ignition** Not applicable

### EXTINGUISHING MEDIA

**Suitable Extinguishing Media** Water, carbon dioxide, or dry chemical. Use extinguishing media appropriate for surrounding materials.

**Unsuitable Extinguishing Media** Not applicable

### SPECIAL HAZARDS

**Hazardous Combustion Products** Normal combustion forms carbon dioxide and water

**Explosion Limits** Data not available. Not considered to be explosion hazard.

**Unusual Fire Hazard** None expected

## SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

### Special Protective Equipment for Firefighters

Wear NIOSH approved self-contained breathing apparatus (SCBA) with positive air pressure.

## Section 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Avoid eye/skin contact with spilled material. Refer to Section 7 for additional handling precautions

**Methods for Containment** If material is dissolved, contain and/or absorb spill with inert material (e.g. sawdust, sand, vermiculite).

**Methods for Cleaning-UP** Scoop up material and transfer to disposal container. If needed, wash spillage area with plenty of water.

## Section 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

**Handling** Avoid eye contact. Avoid breathing dust when handling.

### PRECAUTIONS FOR SAFE STORAGE, INCLUDING ANY COMPATIBILITIES

**Storage** Store in tightly sealed original containers, away from direct heat and strong oxidizing agents. Do not store or handle product in systems constructed of wetted parts consisting of galvanized steel, zinc, or brass components.

## Section 8: CONTROLS/PERSONAL PROTECTION

### EXPOSURE LIMITS

#### TWA PEL:

No specific limits have been established for this product. 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): 8-hour TWA of 15mg/m<sup>3</sup> (total particulate) and 5 mg/m<sup>3</sup> (respirable fraction).

#### TWA TLV:

No specific limits have been established for this product. As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insoluble) Not Otherwise Classified (PNOC): 8- Hour TWA limits of 10 mg/m<sup>3</sup> (as total dust) and 3 mg/m<sup>3</sup> (as respirable)

### EXPOSURE CONTROLS

#### Engineering Controls

No special ventilation is usually necessary; however if operating conditions create high concentration of this material, special ventilation may be needed to keep exposure to airborne contaminants below the exposure limit.

### INDIVIDUAL PROTECTIVE MEASURES/PERSONAL PROTECTIVE EQUIPMENT

#### Eye Protection

Safety glasses or goggles are recommended if eye exposure to product or dust is possible.

#### Skin Protection

Chemical-resistant gloves and clothing should be used if prolonged exposure is possible to prevent drying of skin.

#### Respiratory Protection

Breathing of dust should be avoided. If operating conditions create high airborne concentrations of this material, the use of an approved respirator is recommended.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b>	Blue colored crystals with white pellets
<b>ODOR</b>	Odorless
<b>ODOR THRESHOLD</b>	No data available
<b>Ph (20°C, 68°F)</b>	8-10 (10% aqueous solution)
<b>MELTING POINT</b>	Decomposes
<b>BOILING POINT</b>	Not applicable
<b>FLASH POINT</b>	Not applicable
<b>EVAPORATION RATE</b>	No data available
<b>FLAMMABILITY/EXPLOAION LIMITS</b>	Not applicable
<b>VAPOR PRESSURE (20°C)</b>	Not applicable
<b>VAPOR DENSITY (AIR = 1)</b>	Not applicable
<b>RELATIVE DENSITY</b>	No data available
<b>SOLUBILITY IN WATER</b>	Partially soluble
<b>PARTITION COEFFICIENT; n-OCTANOL/WATER</b>	No data available
<b>AUTO-IGNITION TEMPERATURE</b>	No data available
<b>DECOMPOSITION TEMPERATURE</b>	No data available
<b>VISCOSITY (20°C)</b>	Not applicable
<b>OXIDIZING PROPERTIES</b>	Not oxidizing
<b>EXPLOSIVE PROPERTIES</b>	Not explosive

## Section 10: STABILITY AND REACTIVITY

### REACTIVITY

No dangerous reactions known under conditions of normal use.

### CHEMICAL STABILITY

Stable. Polymerization will not occur.

### POSSIBILITY OF HAZARDOUS REACTIONS

Avoid prolonged contact with reactive metals such as magnesium and zinc, especially in closed systems where hydrogen gas from the oxidation of these materials may accumulate over time.

### INCOMPATIBLE MATERIALS

Strong oxidizing agents; strong acids.

### HAZARDOUS DECOMPOSITION PRODUCTS

May decompose into oxides of carbon.

## Section 11: TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

LD50 rat-oral: 300 mg/kg

LC50 rat-inhalation: >5000 mg/m<sup>3</sup>

LD50 rat-dermal: >5000 mg/kg

Dermal irritation rabbit: Non-irritating

Ocular irritation rabbit: Moderate redness/discharge and some swelling of iris at 1 hr.; insignificant signs of irritation at 24 hr.; all signs cleared at 72 hr.

Sub-chronic oral: No effects after 28 consecutive days dosing at 100 mg/kg/day.

### LIKELY ROUTES OF EXPOSURE

Skin contact, eye contact, ingestion

### SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL, AND TOXICOLOGICAL CHARACTERISTICS

<b>Eye</b>	May cause eye irritation. Symptoms may include temporary discomfort or pain, excess blinking and tear production, with possible redness and swelling.
<b>Skin</b>	May cause itching or irritation of any cut or abraded skin. Symptoms of prolonged contact may include dry skin.
<b>Inhalation</b>	Inhalation of dust during handling may cause respiratory tract irritation and coughing. This product is not otherwise expected to be an inhalation hazard.
<b>Ingestion</b>	Ingestion of large quantities may cause nausea, vomiting, diarrhea and abdominal discomfort.

### DELAYED AND IMMEDIATE EFFECTS AND CHRONIC EFFECTS FROM SHORT- AND LONG-TERM EXPOSURE/NUMERICAL MEASURES OF TOXICITY

<b>Skin Corrosion/Irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious Eye Damage/Irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or Skin Sensitization</b>	Based on available data, the classification criteria are not met.
<b>Germ Cell Mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	This product does not contain any ingredients that are considered to be carcinogens by IARC, NTP, or OSHA.
<b>Reproductive Toxicity</b>	Based on available data, the classification criteria are not met.
<b>STOT-Single Exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT-Repeated Exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration Hazard</b>	Based on available data, the classification criteria are not met.

## Section 12: ECOLOGICAL INFORMATION

### ECOTOXICITY (AQUATIC AND TERRESTRIAL)

Not expected to cause long-term adverse effects in the aquatic or terrestrial environments.

### PERSISTENCE AND DEGRADABILITY

Readily biodegradable. COD (TOD): 0.75 g O<sub>2</sub>/g deicer; BOD<sub>20</sub> (2°C): 0.40 g O<sub>2</sub>/g deicer, BOD<sub>20</sub> (10°C): 0.67

### BIOACCUMULATIVE POTENTIAL

Bioaccumulation is not expected.

## Section 13: DISPOSAL CONSIDERATIONS

### WASTE TREATMENT AND METHODS OF DISPOSAL

Based on available information, this product is neither listed as a hazardous waste nor does it exhibit any of the characteristics that would cause it to be classified as a characterized waste under RCRA. This product may be absorbed onto suitable materials and disposed of in a sanitary landfill unless local, state, or provincial regulations prohibit such disposal.

## Section 14: TRANSPORT INFORMATION

### TRANSPORT INFORMATION

Not regulated as dangerous goods per US DOT or IATA.

## Section 15: REGULATORY INFORMATION

### INVENTORY LISTS

All of the components in this product are on the following inventory lists: USA (TSCA), Canada (DSL/NDSL), Europe (EINECS)

### TSCA SECTION 12(b)

None of these chemicals in this are listed under TSCA Section 12(b).

### CERCLA HAZARDOUS SUBSTANCES

There is no CERCLA Reportable Quantity for this material

### SARA 311 CATEGORIES

Immediate (Acute) Health Hazard:	Yes
Delayed (Chronic) Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactivity Hazard:	No

### SARA 313

None of the components in this product are subject to reporting under SARA Section 313.

### CLEAN WATER ACT

None of the chemicals in this product are listed as Priority Pollutants under the CWA.  
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

## STATE RIGHT-TO-KNOW

This product does not contain components at levels which are required to be reported under the statues of the following: PA, MA, MN, and NJ.

This product does not contain materials known to the State of California (Proposition 65) to cause cancer and/or reproductive harm at levels which would require a warning under the statue.

<b>NFPA 704</b>	
Health	1
Fire	0
Physical Hazard	0
Hazard Rating: 0-4 0-least hazardous; 4-most hazardous	

<b>HMIS – Hazardous Materials Identification System</b>	
Health	1
Fire	0
Physical Hazard	0
Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = serious, 4 = severe	

## Section 16: OTHER INFORMATION

### SDS REVISION DATE

**Revision date:** August 1, 2015

**Expiration date:** August 1, 2018

Latest version of this SDS can be obtained from Minerals International, LLC

### NOTE TO EMPLOYER

This Safety Data Sheet contains environmental, health and toxicology information for your employees. Please ensure this information is provided to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this SDS must be given to the buyer or the information incorporated in you SDS. Discard any previous edition of this SDS.

### DISCLAMIER

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use or misuse are beyond our control, Minerals International, LLC makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for the reliance thereon. Minerals International, LLC assumes no responsibility for any injury or loss resulting from the use of the product described herein. User should satisfy himself that he has all current data relevant to his particular use.

**End of Safety Data Sheet**

Prepared According to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

By Minerals International, LLC

June 1, 2016

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