PRODUCT IDENTIFIER
CRYOTECH CF7®
Liquid 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: Cryotech Deicing Technology
6103 Orthoway
Fort Madison, IA 52627
United States

Contact Information:
Telephone: (800) 346-7237
Fax: (319) 372-2662
Email: deicers@cryotech.com
Website: www.cryotech.com

EMERGENCY TELEPHONE NUMBER
CHEMTREC (800) 424-9300
Outside USA and Canada (703) 741-5970

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

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)
May be harmful if swallowed.
Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>MIXTURES</th>
<th>Ingredient</th>
<th>CAS No</th>
<th>Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Potassium Acetate</td>
<td>127-08-2</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Water</td>
<td>7732-18-5</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>Corrosion Inhibitors</td>
<td>&lt; 1</td>
<td></td>
</tr>
</tbody>
</table>

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, remove to fresh air and get medical advice.

Ingestion
If swallowed, give milk 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 SYMPTOMS / EFFECTS

Eye
May cause temporary eye irritation. Symptoms may include temporary discomfort, excessive blinking, tear production, redness, and/or swelling.

Skin
May cause itching or irritation of any cut or abraded skin. Symptoms of prolonged contact may include dry skin.

Inhalation
Inhalation of aerosol during spraying may cause respiratory tract irritation and coughing. This product is not otherwise expected to be an inhalation hazard.

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

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT

Note to physicians
This product contains potassium acetate. Though ingestion of large amounts of potassium salts usually results in vomiting, excessive potassium absorption can cause hyperkalemia.

Specific treatments
If you feel unwell, seek medical advice immediately. Show the label or safety data sheet to medical personnel if possible.
FLAMMABILITY
Flash Point (close cup) 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 an explosion hazard.
Unusual Fire Hazards None expected

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS
Special Protective Equipment for Firefighters Wear protective equipment suitable for surrounding environment.

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 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.

PRECAUTIONS FOR SAFE HANDLING
Handling Avoid eye contact. Avoid breathing mist when spraying.

PRECAUTIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES
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.
EXPOSURE LIMITS
Exposure Limits
No specific limits have been established for this product.

EXPOSURE CONTROLS
Engineering Controls
No special ventilation is usually necessary; however if operating conditions create high airborne concentrations 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 splashing/spraying is possible.

Skin Protection
No special skin protection is usually necessary. Chemical-resistant gloves and clothing should be used if prolonged exposure is possible to prevent drying of skin.

Respiratory Protection
No special respiratory protection is usually necessary. Breathing of mist/aerosol 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

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPEARANCE</td>
<td>Clear, colorless to light straw colored liquid. (May be dyed blue at customer request.)</td>
</tr>
<tr>
<td>ODOR</td>
<td>Odorless to slight vinegar odor</td>
</tr>
<tr>
<td>ODOR THRESHOLD</td>
<td>No data available</td>
</tr>
<tr>
<td>pH (20°C, 68°F)</td>
<td>10.5 – 11.5</td>
</tr>
<tr>
<td>FREEZING POINT</td>
<td>-60°C (-76°F)</td>
</tr>
<tr>
<td>BOILING POINT</td>
<td>~ 110°C (230°F)</td>
</tr>
<tr>
<td>FLASH POINT</td>
<td>Not applicable</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>No data available</td>
</tr>
<tr>
<td>FLAMMABILITY/EXPLOSION LIMITS</td>
<td>Not applicable</td>
</tr>
<tr>
<td>VAPOR PRESSURE (20°C)</td>
<td>15 mm Hg</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR = 1)</td>
<td>No data available</td>
</tr>
<tr>
<td>RELATIVE DENSITY</td>
<td>1.28</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>Completely miscible</td>
</tr>
<tr>
<td>PARTITION COEFFICIENT; n-OCTANOL/WATER</td>
<td>No data available</td>
</tr>
<tr>
<td>AUTO-IGNITION TEMPERATURE</td>
<td>No data available</td>
</tr>
<tr>
<td>DECOMPOSITION TEMPERATURE</td>
<td>No data available</td>
</tr>
<tr>
<td>VISCOSITY (20°C)</td>
<td>6.5 cP</td>
</tr>
<tr>
<td>OXIDIZING PROPERTIES</td>
<td>Not oxidizing</td>
</tr>
<tr>
<td>EXPLOSIVE PROPERTIES</td>
<td>Not explosive</td>
</tr>
</tbody>
</table>
CRYOTECH CF7®
Liquid Commercial Deicer
Safety Data Sheet

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
No dangerous reactions known under conditions of normal use.

CONDITIONS TO AVOID
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: > 5 g/kg.

LIKELY ROUTES OF EXPOSURE
Skin contact, eye contact, ingestion.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL, AND TOXICOLOGICAL CHARACTERISTICS

Eye
May cause temporary eye irritation. Corneal injury is unlikely.

Skin
Repeated contact may cause minor skin irritation or dry skin.

Inhalation
Inhalation of aerosol during spraying may cause respiratory tract irritation and coughing. This product is not otherwise expected to be an inhalation hazard.

Ingestion
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

Skin Corrosion/Irritation
Based on available data, the classification criteria are not met.

Serious Eye Damage/Irritation
Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization
Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
This product does not contain any ingredients that are considered to be carcinogens by IARC, NTP, or OSHA.
Reproductive Toxicity  Based on available data, the classification criteria are not met.
STOT-Single Exposure  Based on available data, the classification criteria are not met.
STOT-Repeated Exposure  Based on available data, the classification criteria are not met.
Aspiration Hazard  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): 0.34 g O₂/g deicer; BOD₅ (20°C): 0.25 g O₂/g deicer

BIOACCUMULATIVE POTENTIAL
Bioaccumulation is not expected.

MOBILITY IN SOIL
Adverse effects not expected.

OTHER ADVERSE EFFECTS
None 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 hazardous 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
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 the chemicals in this product are listed under TSCA Section 12(b).

CERCLA HAZARDOUS SUBSTANCES
There is no CERCLA Reportable Quantity for this material.

SARA 311/312 CATEGORIES

<table>
<thead>
<tr>
<th>Physical hazards</th>
<th>Health hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosive</td>
<td>Acute toxicity (any route of exposure)</td>
</tr>
<tr>
<td>Flammable (gases, aerosols, liquids or solids)</td>
<td>Skin corrosion or irritation</td>
</tr>
<tr>
<td>Oxidizer (liquid, solid or gas)</td>
<td>Serious eye damage or eye irritation</td>
</tr>
<tr>
<td>Self-reactive</td>
<td>Respiratory or skin sensitization</td>
</tr>
<tr>
<td>Pyrophoric (liquid or solid)</td>
<td>Germ cell mutagenicity</td>
</tr>
<tr>
<td>Pyrophoric Gas</td>
<td>Carcinogenicity</td>
</tr>
<tr>
<td>Self-heating</td>
<td>Reproductive toxicity</td>
</tr>
<tr>
<td>Corrosive to metal</td>
<td>Specific target organ toxicity (single or repeated exposure)</td>
</tr>
<tr>
<td>Gas under pressure (compressed gas)</td>
<td>Aspiration hazard</td>
</tr>
<tr>
<td>In contact with water emits flammable gas</td>
<td>Simple Asphyxiant</td>
</tr>
<tr>
<td>Combustible Dust</td>
<td>Hazard Not Otherwise Classified (HNOC)</td>
</tr>
<tr>
<td>Hazard Not Otherwise Classified (HNOC)</td>
<td></td>
</tr>
</tbody>
</table>

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 statutes of the following states: 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 statute.
Section 16: OTHER INFORMATION

SDS REVISION DATE
Revision date: August 1, 2020
Expiration date: August 1, 2023
Latest version of this SDS can be obtained from Cryotech.

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 your SDS. Discard any previous edition of this SDS.

DISCLAIMER
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, GENERAL ATOMICS INTERNATIONAL SERVICES CORPORATION dba Cryotech Deicing Technology 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 reliance thereon. GENERAL ATOMICS INTERNATIONAL SERVICES CORPORATION dba Cryotech Deicing Technology 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