Section 1: IDENTIFICATION

PRODUCT IDENTIFIER
CRYOTECH NAAC®40
Solid Commercial Deicer

RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE
Deicing pavements, parking structures, etc. Not intended for airside use.

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

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

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)
May be harmful if swallowed.
CRYOTECH NAAC®40
Solid Commercial Deicer
Safety Data Sheet

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>Sodium Acetate – anhydrous</td>
<td>127-09-3</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>Sodium Chloride</td>
<td>7647-14-5</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>And small amounts of nonhazardous additives such as corrosion inhibitors and anticaking agents</td>
<td></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, excess 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
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

Specific treatments
If you feel unwell, seek medical advice immediately. Show the label or safety data sheet to medical personnel if possible.
### Section 5: FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>FLAMMABILITY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point (close cup)</td>
<td>Nonflammable by OSHA/WHMIS criteria</td>
</tr>
<tr>
<td>Auto Ignition</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**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 expected 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 the surrounding environment.

### 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 INCOMPATIBILITIES**

- **Storage**: Best practice is to store in tightly sealed original containers. Store 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: EXPOSURE 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-hr TWA limits of 15 mg/m³ (total particulate) and 5 mg/m³ (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-hr TWA limits of 10 mg/m³ (as total dust) and 3 mg/m³ (as respirable).

EXPOSURE CONTROLS

Engineering Controls No special ventilation is usually necessary; however if operating conditions create high 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 eye contact is possible.

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

Respiratory Protection No special respiratory protection is usually necessary. 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPEARANCE</td>
<td>White to gray spherical pellet</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>8-10.5 (15% aqueous solution)</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>324°C (615°F)</td>
</tr>
<tr>
<td>BOILING POINT</td>
<td>Not applicable</td>
</tr>
<tr>
<td>FLASH POINT</td>
<td>Not applicable</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>Not applicable</td>
</tr>
<tr>
<td>FLAMMABILITY/EXPLOSION LIMITS</td>
<td>Data not available</td>
</tr>
<tr>
<td>VAPOR PRESSURE (20°C)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR = 1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>RELATIVE DENSITY</td>
<td>1.5</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>Partially soluble</td>
</tr>
<tr>
<td>PARTITION COEFFICIENT; n-OCTANOL/WATER</td>
<td>Data not available</td>
</tr>
<tr>
<td>AUTO-IGNITION TEMPERATURE</td>
<td>Data not available</td>
</tr>
<tr>
<td>DECOMPOSITION TEMPERATURE</td>
<td>Data not available</td>
</tr>
<tr>
<td>VISCOSITY (20°C)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>OXIDIZING PROPERTIES</td>
<td>Not oxidizing</td>
</tr>
<tr>
<td>EXPLOSIVE PROPERTIES</td>
<td>Not explosive</td>
</tr>
</tbody>
</table>

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, estimated based on ingredients

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 dust during handling 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): 0.74 g O₂/g deicer; BOD₅ (20°C): 0.45 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.

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 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 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.

<table>
<thead>
<tr>
<th>NFPA 704</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
</tr>
<tr>
<td>Fire</td>
</tr>
<tr>
<td>Physical Hazard</td>
</tr>
<tr>
<td>Hazard Rating: 0-4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS – Hazardous Materials Identification System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
</tr>
<tr>
<td>Fire</td>
</tr>
<tr>
<td>Physical Hazard</td>
</tr>
<tr>
<td>Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = serious, 4 = severe</td>
</tr>
</tbody>
</table>

Section 16: OTHER INFORMATION

SDS REVISION DATE
Revision date: August 1, 2019
Expiration date: August 1, 2022
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