



# CRYOTECH NAAC® SOLID DEICER

## Safety Data Sheet

### SECTION 1 – IDENTIFICATION

#### PRODUCT IDENTIFIER

Cryotech NAAC® Solid Deicer

#### OTHER MEANS OF IDENTIFICATION

UL: 1729961

#### RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

Deicing/anti-icing runways and other pavements and structures

#### RESPONSIBLE PARTY INFORMATION

##### Name/Address

Cryotech Deicing Technology  
6103 Orthoway  
Fort Madison, IA 52627  
United States

##### Contact information

Telephone: (800) 346-7237  
Email: [deicers@cryotech.com](mailto:deicers@cryotech.com)  
Website: [www.cryotech.com](http://www.cryotech.com)

#### EMERGENCY PHONE NUMBER

CHEMTREC: (800) 424-9300  
Outside USA and Canada: (703) 741-5970

### SECTION 2 – HAZARD IDENTIFICATION

#### HAZARD INFORMATION ACCORDING TO OSHA HAZCOM 2024

Hazard classification	Not classified as hazardous
Signal word	N/A
Hazard statement(s)	N/A
Hazard symbol(s)	No pictogram
Precautionary statement(s)	Not required
Hazards not otherwise classified	None

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

#### MIXTURES

Chemical Name	Common name and synonyms	CAS number	%(wt.)
Sodium acetate – anhydrous	Sodium ethanoate; Sodium salt of acetic acid	127-09-3	97
Trade secret/proprietary corrosion inhibitor package			<1

#### Composition comments

This product may contain small amounts of nonhazardous additives such as anti-caking agents and colorants.



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### SECTION 4 – FIRST AID MEASURES

#### **DESCRIPTION OF FIRST AID MEASURE**

<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical advice if cough or other symptoms appear.
<b>Skin</b>	Wash hands and exposed skin thoroughly after handling.
<b>Eye</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, 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, ACUTE AND DELAYED**

May cause temporary eye irritation. Symptoms may include temporary discomfort, excessive blinking, tear production, redness, and/or swelling. May cause itching or irritation of any cut or abraded skin. Prolonged contact may cause dry skin. Inhalation of dust during handling may cause minor respiratory tract irritation and coughing. Ingestion of large quantities may cause nausea, vomiting, diarrhea, and/or abdominal discomfort.

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

If you feel unwell, seek medical advice. Treat symptomatically.

### SECTION 5 – FIRE-FIGHTING MEASURES

#### **SUITABLE EXTINGUISHING MEDIA**

Water, carbon dioxide, or dry chemical. Use extinguishing media appropriate for the surrounding environment.

#### **UNSUITABLE EXTINGUISHING MEDIA**

Not applicable

#### **SPECIFIC HAZARDS ARISING FROM THE CHEMICAL**

None expected

#### **SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS**

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. Provide adequate ventilation to avoid breathing of dust. Wear appropriate personal protective equipment (refer to Section 8 of this SDS).

#### **METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

If product is dry, sweep or vacuum up spill taking care to provide adequate ventilation and to avoid generating dust. If product is dissolved, contain and/or absorb spill with inert material (e.g., sawdust, sand, kitty litter). Scoop up material and transfer to disposal container. If needed, rinse spillage area with plenty of water.



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### SECTION 7 – HANDLING AND STORAGE

#### **PRECAUTIONS FOR SAFE HANDLING**

Avoid eye/skin contact. Avoid breathing of dust. Wear appropriate personal protective equipment (refer to Section 8 of this SDS). Wash hands thoroughly after use. Change contaminated clothing.

#### **PRECAUTIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

Store in tightly sealed 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. Protect bags from physical damage. This product is very hygroscopic (i.e., can absorb humidity from air) and may clump/set up if exposed to moisture in storage.

### SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **US OSHA PERMISSIBLE EXPOSURE LIMIT (PEL)**

No specific limits established. As a guideline, US OSHA has established the following limits for dust, nuisance dust, inert dust, particulates not otherwise regulated (PNOR): 8-hr TWA limits 5 mg/m<sup>3</sup> (15 mppcf) [respirable fraction], 15 mg/m<sup>3</sup> (50 mppcf) [total dust].

#### **AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS THRESHOLD LIMIT VALUE (TLV)**

No TLV established. As a guideline, ACGIH has recommended that airborne concentrations be kept below 3 mg/m<sup>3</sup> (respirable particles) and 10 mg/m<sup>3</sup> (inhalable particles).

#### **APPROPRIATE ENGINEERING CONTROLS**

Have eyewash stations available. Ensure adequate ventilation, especially in confined areas.

#### **INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT**

Wear safety glasses with side shields or safety goggles. Chemical-resistant gloves are not usually necessary, but should be worn if prolonged exposure is possible. Clothing should be suitable to protect skin (e.g., long sleeves, long pants). Avoid breathing dust. If conditions create high airborne concentrations of this product, use an approved respirator, such as an N95 mask. Always use good personal hygiene habits when using this product, such as avoiding touching the face, and thoroughly and regularly washing hands.



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### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid spherical pellets
Color	White or blue
Odor	Odorless to mild vinegar odor (odor threshold not available)
Melting point/freezing point	324°C (615°F)
Boiling point	Not applicable
Flammability	Not flammable
Explosive limits (lower and upper)	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Data not available
Decomposition temperature	>400°C
pH	~8-10.5 (15% aqueous solution)
Kinematic viscosity	Not applicable
Solubility	Soluble in water
Partition coefficient n-octanol/water	Data not available
Vapor pressure	0 Pa at 25°C
Relative density	>1
Relative vapor density	Not applicable
Particle characteristics	Typical particle size is approx. 1.7 – 2.4 mm

### SECTION 10 – STABILITY AND REACTIVITY

#### REACTIVITY

This product is expected to be non-reactive under normal conditions of use, storage, and transport.

#### CHEMICAL STABILITY

Stable. Polymerization will not occur.

#### POSSIBILITY OF HAZARDOUS REACTIONS, INCLUDING THOSE ASSOCIATED WITH FORESEEABLE EMERGENCIES

In unventilated/closed systems, especially where moisture is present, this product may slowly oxidize reactive metals such as magnesium or zinc resulting in gradual liberation of hydrogen gas which may accumulate over time.

#### CONDITIONS TO AVOID

Avoid prolonged contact with reactive metals such as magnesium and zinc in closed systems.

#### INCOMPATIBLE MATERIALS

Strong oxidizing agents; strong acids.

#### HAZARDOUS DECOMPOSITION PRODUCTS

May decompose into oxides of carbon (e.g., CO, CO<sub>2</sub>).



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### SECTION 11 – TOXICOLOGICAL INFORMATION

#### **INFORMATION ON LIKELY ROUTES OF EXPOSURE**

Ingestion is unlikely during normal operations. Inhalation of dust is most likely when in confined areas. Skin contact may occur from loading operations. Eye contact is possible from airborne particles or dust during deicing operations, or from touching eyes with contaminated hands.

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

May cause acute, temporary eye irritation, excessive blinking, or tearing. Corneal injury is unlikely. May cause irritation or itching of cut or abraded skin. Repeated or prolonged skin exposure may cause dryness. Inhalation of dust during handling may cause temporary respiratory tract irritation and coughing. Ingestion of large quantities may cause nausea, vomiting, diarrhea, and/or abdominal discomfort.

#### **DELAYED AND IMMEDIATE EFFECTS AND CHRONIC EFFECTS FROM SHORT- AND LONG-TERM EXPOSURE**

Exposure may result in immediate temporary eye irritation or minor skin irritation/dryness. This product is not expected to produce serious delayed or chronic effects from short- or long-term exposure.

#### **NUMERICAL MEASURES OF TOXICITY**

LD50 rat-oral: 3530 mg/kg for sodium acetate  
LD50 mouse-oral: ~ 7 g/kg  
LC50 rat-inhalation: >30 g/m<sup>3</sup>/1H for sodium acetate

#### **INTERACTIVE EFFECTS**

None known.

#### **CARCINOGENIC INFORMATION**

No component in this product is listed in the National Toxicology Program (NTP) Report on Carcinogens or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs or by OSHA.

### SECTION 12 – ECOLOGICAL INFORMATION

#### **ECOTOXICITY**

Acute Fish Toxicity (Pimephales promelas, static system 96 hr LC50): 3750 mg/L  
Acute Daphnid Toxicity (Daphnia magna, static system 48 hr LC50): 3500 mg/L  
Acute Sheepshead minnows (48-hr LC50): >8000 mg/L  
Acute Mysid (48-hr LC50): ~8000 mg/L

#### **PERSISTENCE AND DEGRADABILITY**

Readily biodegradable. COD (TOD): 0.74 g O<sub>2</sub>/g deicer (740 mg O<sub>2</sub>/g deicer); BOD<sub>5</sub> (20°C): 0.45 g O<sub>2</sub>/g deicer (450 mg O<sub>2</sub>/g deicer)

#### **BIOACCUMULATIVE POTENTIAL**

Bioaccumulation is not expected.

#### **MOBILITY IN SOIL**

Adverse effects not expected.

#### **OTHER ADVERSE EFFECTS**

None expected.



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### SECTION 13 – DISPOSAL CONSIDERATIONS

#### WASTE RESIDUES AND INFORMATION ON SAFE HANDLING 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 the US Resource Conservation and Recovery Act (RCRA). If recovered product is not fit for use, dispose of contents/container in accordance with local, state, regional, national, and/or international regulations.

### SECTION 14 – TRANSPORT INFORMATION

<b>UN number</b>	Not applicable. This material is not regulated as dangerous per US DOT or IATA/ICAO.
<b>UN proper shipping name</b>	Not applicable
<b>Transport hazard class(es)</b>	Not applicable
<b>Packing group</b>	Not applicable
<b>Environmental hazards</b>	Not applicable. This material is not a Marine pollutant.
<b>Transport in bulk</b>	Consult IMO regulations before transporting ocean bulk.
<b>Special precautions</b>	Not applicable

### SECTION 15 – REGULATORY INFORMATION

#### INVENTORY LISTS

All of the components in this product are on the following inventory lists: US (TSCA), Canada (DSL/NDSL), Europe (EINECS); or not required to be listed.

#### TSCA SECTION 12(B)

None of the chemicals in this product are listed under US EPA Toxic Substances Control Act (TSCA) Section 12(b).

#### CERCLA HAZARDOUS SUBSTANCES

This material, as supplied, does not contain any chemicals regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302). There is no CERCLA Reportable Quantity for this material. There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT (EPCRA) SECTION 313

None of the chemicals in the product are subject to reporting under the US EPA Toxics Release Inventory (TRI) program.

#### HAZARD CATEGORIES FOR EPCRA 311 / 312

Health hazard	
Carcinogenicity	No
Acute toxicity (any route of exposure)	No
Aspiration hazard	No
Reproductive toxicity	No
Germ cell mutagenicity	No
Skin corrosion or irritation	No
Respiratory or skin sensitization	No
Serious eye damage or eye irritation	No
Specific organ toxicity (single or repeated exposure)	No
Simple asphyxiant	No
Hazard not otherwise classified (HNOC)	No

Physical hazard	
Flammable (gases, aerosols, liquids or solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (liquid or solid)	No
Pyrophoric gas	No
Oxidizer (liquid, solid or gas)	No
Organic peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible dust	No
Corrosive to metal	No
Hazard not otherwise classified (HNOC)	No



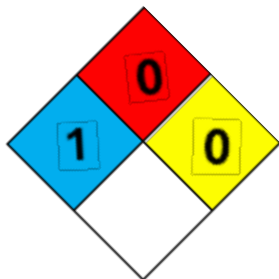
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### **CLEAN WATER ACT**

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

### **NFPA 704**



## **SECTION 16 – OTHER INFORMATION**

### **SDS REVISION DATE**

This SDS was revised on **August 1, 2024**.

The latest version can be obtained by contacting Cryotech Deicing Technology.

### **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**