

CRYOTECH NAAC[®] Runway

MATERIAL SAFETY DATA SHEET



1. PRODUCT NAME & DESCRIPTION

Cryotech NAAC[®] Runway Deicer

MANUFACTURED AND SUPPLIED IN THE USA BY

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

Cryotech Contact Information

Telephone: (800)346-7237
FAX: (319)372-2662
email: deicers@cryotech.com
website: <http://www.cryotech.com>

2. CHEMICAL COMPOSITION

The percent compositions are given to allow for the various ranges of the components present in the whole product and may not equal 100%.

Percent	Component	CAS#
100%	Cryotech NAAC [®] Runway Deicer	
Containing		
96%	Sodium Acetate - anhydrous water-soluble material	127-09-3

CAS - Chemical Abstract Service Number

3. HAZARD IDENTIFICATION

(also see Sections 11 and 12)

CAUTION! - MAY CAUSE EYE IRRITATION

EYE CONTACT:

This substance may cause eye irritation.

SKIN IRRITATION:

This substance may cause skin irritation.

DERMAL TOXICITY:

If absorbed through the skin, this substance is considered practically non-toxic to internal organs.

RESPIRATORY/INHALATION:

If inhaled, this substance is considered practically non-toxic to internal organs. Dust, in high concentration, may cause irritation of eyes, nose and throat.

INGESTION:

If swallowed, this substance is considered practically non-toxic to internal organs. Ingestion may cause irritation of the digestive tract which may result in nausea, vomiting and diarrhea.

OCCUPATIONAL EXPOSURE LIMITS:

None established per OSHA, PEL and ACGIHTLV (TWA)

4. FIRST AID MEASURES

Chemical Emergency: Spill, leak, fire, or accident call
Chemtrec day or night (800)424-9300;
Outside continental USA call (703)527-3887

EYE CONTACT:

Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. No additional first aid should be necessary. However, if irritation persists, see a doctor.

SKIN CONTACT:

Immediately wash with soap and water for at least 15 minutes.

INHALATION:

If a person breathes large amounts, move the exposed person to fresh air. If breathing is difficult, see a doctor.

INGESTION:

This product is for external use only. Ingestion should not be toxic, but could result in irritation of digestive system. If swallowed, drink fluids to minimize symptoms. Seek medical advice.

5. FIRE FIGHTING MEASURES

FLASH POINT: >100°C

AUTO IGNITION: No data

FLAMMABILITY LIMITS (% by volume in air):

Lower: No data

Upper: No data

EXTINGUISHING MEDIA:

Use extinguishing media appropriate for surrounding fire.

FIRE FIGHTING PROCEDURES:

Fire fighters should wear proper protective equipment, self-contained breathing apparatus with full face piece operated in positive pressure mode.

COMBUSTION PRODUCTS:

Carbon monoxide, carbon dioxide

NFPA RATINGS:

Health 1; Flammability 0; Reactivity 0; Special NDA:

(Least - 0, Slight - 1, Moderate - 2, High - 3, Extreme - 4)

These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint Coating Association.

6. ACCIDENTAL RELEASE MEASURES

Chemical Emergency: Spill, leak, fire, or accident call
Outside continental USA call (703)527-3887
Chemtrec day or night (800)424-9300;

Sweep up spills and transfer to a container for disposal. See section 13.
If needed, wash spillage area with plenty of water.

7. HANDLING AND STORAGE

Avoid contact with skin and eyes.

Do not store or handle product with systems constructed of parts that have galvanized steel, zinc or brass components.

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<p>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</p> <p>EYE PROTECTION: Safety glasses should always be worn when working with chemicals</p> <p>SKIN PROTECTION: Appropriate work apparel. Plastic or rubber gloves optional.</p> <p>RESPIRATORY PROTECTION: No special respiratory protection is normally required where adequate ventilation exists. However, if operating conditions create high airborne concentrations, the use of an approved respirator is recommended.</p> <p>VENTILATION: No special ventilation is necessary. However, if operating conditions create high airborne concentrations of this material, special ventilation may be needed.</p>	<p>13. DISPOSAL CONSIDERATION Based on information available to Cryotech Deicing Technology, this product is neither listed as a hazardous waste nor does it exhibit any of the characteristics that would cause it to be classified or disposed of as an RCRA hazardous waste. If product should spill or be otherwise unsuitable for normal deicing applications, it may be absorbed on suitable materials and disposed of in sanitary landfill unless state or local regulations prohibit such disposal.</p>																																						
<p>9. PHYSICAL AND CHEMICAL PROPERTIES</p> <p>SOLUBILITY: Partially soluble in water.</p> <p>Appearance: White to grey angular or spherical granule</p> <p>BOILING POINT: No Data</p> <p>MELTING POINT: 324°C (615°F)</p> <p>EVAPORATION: No Data</p> <p>SPECIFIC GRAVITY: 1.53</p> <p>VAPOR PRESSURE: No Data</p> <p>PERCENT VOLATILE (VOLUME %): 0</p> <p>VAPOR DENSITY (AIR = 1): No Data</p> <p>pH: 8-10.5 (10% aqueous solution)</p>	<p>14. TRANSPORT INFORMATION Not restricted under any transport regulations.</p>																																						
<p>10. STABILITY & REACTIVITY</p> <p>HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide</p> <p>STABILITY: Stable.</p> <p>HAZARDOUS POLYMERIZATION: Polymerization will not occur.</p> <p>INCOMPATIBILITY: Strong oxidizing agents</p> <p>SPECIAL PRECAUTIONS: READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. KEEP CONTAINER TIGHTLY CLOSED IN ANY GENERAL CHEMICAL STORAGE AREA.</p>	<p>15. REGULATORY INFORMATION</p> <p>DOT SHIPPING NAME: Not designated as a hazardous material by the Federal DOT.</p> <p>DOT HAZARD CLASS: Not Applicable</p> <p>DOT IDENTIFICATION NUMBER: Not Applicable</p> <p>SARA 311 CATEGORIES:</p> <table style="width: 100%; border: none;"> <tr> <td>1. Immediate (Acute) Health Effects:</td> <td style="text-align: right;">Yes</td> </tr> <tr> <td>2. Delayed (Chronic) Health Effects:</td> <td style="text-align: right;">No</td> </tr> <tr> <td>3. Fire Hazard:</td> <td style="text-align: right;">No</td> </tr> <tr> <td>4. Sudden Release of Pressure Hazard:</td> <td style="text-align: right;">No</td> </tr> <tr> <td>5. Reactivity Hazard:</td> <td style="text-align: right;">No</td> </tr> </table> <p>REGULATORY LISTS SEARCHED:</p> <table style="width: 100%; border: none;"> <tr> <td>01 = SARA 313</td> <td>02 = MASS RTK</td> </tr> <tr> <td>03 = NTP Carcinogen</td> <td>04 = CA Prop. 65</td> </tr> <tr> <td>05 = MI 406</td> <td>06 = IARC Group 1</td> </tr> <tr> <td>07 = IARC Group 2A</td> <td>08 = IARC Group 2B</td> </tr> <tr> <td>09 = SARA 302/304</td> <td>10 = PA RTK</td> </tr> <tr> <td>11 = NJ RTK</td> <td>12 = CERCLA 302.4</td> </tr> <tr> <td>13 = MN RTK</td> <td>14 = ACGIH TLV</td> </tr> <tr> <td>15 = ACGIH STEL</td> <td>16 = ACGIH Calculated TLV</td> </tr> <tr> <td>17 = OSHATWA</td> <td>18 = OSHA STEL</td> </tr> <tr> <td>20 = EPA Carcinogen</td> <td>21 = TSCA Sect 4(e)</td> </tr> <tr> <td>22 = TSCA Sect 5(a)(e)(f)</td> <td>23 = TSCA Sect 6</td> </tr> <tr> <td>24 = TSCA Sect 12(b)</td> <td>25 = TSCA Sect 8(a)</td> </tr> <tr> <td>26 = TSCA Sect 8(d)</td> <td>28 = Canadian WHMIS</td> </tr> <tr> <td>29 = OSHA CEILING</td> <td></td> </tr> </table> <p>None of the components of this material are found on the regulatory lists indicated.</p>	1. Immediate (Acute) Health Effects:	Yes	2. Delayed (Chronic) Health Effects:	No	3. Fire Hazard:	No	4. Sudden Release of Pressure Hazard:	No	5. Reactivity Hazard:	No	01 = SARA 313	02 = MASS RTK	03 = NTP Carcinogen	04 = CA Prop. 65	05 = MI 406	06 = IARC Group 1	07 = IARC Group 2A	08 = IARC Group 2B	09 = SARA 302/304	10 = PA RTK	11 = NJ RTK	12 = CERCLA 302.4	13 = MN RTK	14 = ACGIH TLV	15 = ACGIH STEL	16 = ACGIH Calculated TLV	17 = OSHATWA	18 = OSHA STEL	20 = EPA Carcinogen	21 = TSCA Sect 4(e)	22 = TSCA Sect 5(a)(e)(f)	23 = TSCA Sect 6	24 = TSCA Sect 12(b)	25 = TSCA Sect 8(a)	26 = TSCA Sect 8(d)	28 = Canadian WHMIS	29 = OSHA CEILING	
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<p>11. TOXICOLOGICAL INFORMATION</p> <p>EYE IRRITATION: No data</p> <p>SKIN IRRITATION: No data</p> <p>DERMAL TOXICITY: No data</p> <p>RESPIRATORY/INHALATION: No data</p> <p>INGESTION: The oral LC50 in rats is 3,530 mg/kg</p>	<p>16. OTHER INFORMATION</p> <p>ADDITIONAL HEALTH DATA COMMENT: Effects of overexposure: High concentration of dust may cause irritation of eyes, nose and throat, especially for people with chronic respiratory problems This Material Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given 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 MSDS must be given to the buyer or the information incorporated in your MSDS. Discard any previous edition of this MSDS. Latest version of this MSDS can be found at http://www.cryotech.com</p>																																						
<p>12. ECOLOGICAL INFORMATION</p> <p>COD (TOD): 0.70 g O₂/g deicer</p> <p>BOD₅ @ 20° C: 0.57 g O₂/g deicer</p>																																							

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, **Cryotech Deicing Technology, a Division of General Atomics International Services Corporation 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.** Cryotech Deicing Technology, a Division of General Atomics International Services Corporation 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.