

Cryotech XT360®

MATERIAL SAFETY DATA SHEET



1. PRODUCT NAME & DESCRIPTION

Cryotech XT360® Liquid Runway Deicer
With DuPont Tate & Lyle Susterra™ propanediol
Complies with Specification AMS 1435

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 XT360	
	An aqueous bio-based solution containing	
	1,3-propanediol	504-63-2
	Corrosion Inhibitors	

CAS - Chemical Abstract Service Number

3. HAZARD IDENTIFICATION

RESPIRATORY/INHALATION: Considered to be non-hazardous.

SKIN IRRITATION: Unlikely to cause irritation.

EYE CONTACT: May cause temporary irritation.

INGESTION: Considered to be non-hazardous.

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: Wash off in flowing water. Launder contaminated clothing before re-use.

INHALATION: Remove to fresh air if feeling unwell. Consult medical personnel if symptoms persist.

INGESTION: Give large quantities of water to drink. Consult medical personnel.

5. FIRE FIGHTING MEASURES

FLASH POINT (close cup): 129°C

AUTO IGNITION: 405°C

EXPLOSION LIMITS: No data.

EXTINGUISHING MEDIA: Water, foam, Carbon Dioxide, dry powder.

SPECIFIC FIRE FIGHTING PROCEDURES: None

HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion may produce Carbon Monoxide and other harmful gases/vapors.

UNUSUAL FIRE HAZARDS: The product may become combustible after prolonged heating at the boiling point.

NFPA RATINGS:

Health 0; Flammability 1; 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

Chemtrec day or night (800)424-9300;

Outside continental USA call (703)527-3887

SPILL/LEAK PRECAUTIONS:

Contain spillage and absorb on suitable material e.g. sawdust, sand or earth. Transfer to a container for disposal. See section 13. Wash the spillage area with plenty of water.

7. HANDLING AND STORAGE

STORAGE: Store in tightly sealed original containers, away from direct heat and strong oxidizing agents.

SPECIAL PRECAUTIONS: Avoid contact with skin and eyes. Avoid breathing mists/vapors when spraying.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Wear eye protection if splashing is possible. An eye wash bottle should be available.

SKIN PROTECTION: Gloves and protective overalls recommended if prolonged contact is likely.

VENTILATION: Maintain sufficient ventilation to comply with 'Occupational Exposure Standard'.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, colorless to light straw colored liquid (may be dyed blue at customer request)

ODOR: None

pH (20°C): 8 - 10

BOILING POINT: 214°C

SPECIFIC GRAVITY (20°C): 1.02 - 1.07

FREEZING POINT:

100% below -60°C

VISCOSITY:

20°C 20 cP

SOLUBILITY IN WATER: Completely miscible

10. STABILITY & REACTIVITY

Stable under normal storage conditions.

Incompatible materials - strong oxidizing agents.

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11. TOXICOLOGICAL INFORMATION

EYE IRRITATION: No product toxicology data available. The hazard evaluation was based on data from similar products.
SKIN IRRITATION: No product toxicology data available. The hazard evaluation was based on data from similar products.
RESPIRATORY/INHALATION: No product toxicology data available. The hazard evaluation was based on data from similar products.
INGESTION: No product toxicology data available. The hazard evaluation was based on data from similar products.

12. ECOLOGICAL INFORMATION

COD(TOD) 1.26 kgO₂/kg
BOD₅ @ 20°C 0.55 kgO₂/kg

13. DISPOSAL CONSIDERATION

Controlled incineration or landfill in accordance with local, state or national regulations.

14. TRANSPORT INFORMATION

Not restricted under any transport regulations.

15. REGULATORY INFORMATION

DOT SHIPPING NAME: Not designated as a hazardous material by the Federal DOT.

DOT HAZARD CLASS: Not Applicable

DOT IDENTIFICATION NUMBER: Not Applicable

SARA 311 CATEGORIES:

- | | |
|---------------------------------------|-----|
| 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 |

REGULATORY LISTS SEARCHED:

- | | |
|---------------------------|---------------------------|
| 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 | |

None of the other components of this material are found on the regulatory lists indicated.

16. OTHER INFORMATION

All components are registered in accordance with EINECS AND TSCA. 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.

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