



# CRYOTECH XT360<sup>®</sup>

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT NAME & DESCRIPTION

**CRYOTECH XT360<sup>®</sup>** Liquid Runway Deicer  
with DuPont Tate & Lyle Susterra<sup>®</sup> 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  
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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 <sup>®</sup> Liquid Runway Deicer Aqueous solution containing Susterra <sup>®</sup> propanediol plus corrosion inhibitors	504-63-2

CAS - Chemical Abstract Service Number

### 3. HAZARD IDENTIFICATION

(also see Sections 11 and 12)

#### CAUTION! - MAY CAUSE EYE IRRITATION

#### EYE CONTACT:

This substance may be slightly irritating to the eyes.

#### SKIN IRRITATION:

This substance is not expected to cause prolonged or significant skin irritation.

#### RESPIRATORY/INHALATION:

This material does not present an inhalation hazard.

#### INGESTION:

If swallowed, this substance is considered practically non-toxic to internal organs.

### 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:

No first aid procedures are required.

As a precaution, wash skin thoroughly with soap and water.

Remove and wash contaminated clothing.

#### INHALATION:

Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required.

#### INGESTION:

If swallowed, give water or milk to drink and telephone for medical advice.

DO NOT make the person vomit unless directed to do so by medical personnel.

If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

If swallowed, give water or milk to drink.

Consult medical personnel.

### 5. FIRE FIGHTING MEASURES

#### FLASH POINT (close cup):

129°C

#### AUTO IGNITION:

405°C

#### EXPLOSION LIMITS:

No data available

#### EXTINGUISHING MEDIA:

Water, foam, Carbon Dioxide, and 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.

#### SKIN PROTECTION:

No special skin protection is usually necessary.

Avoid prolonged or frequently repeated skin contact with this material.

Skin contact can be minimized by wearing protective clothing.

#### RESPIRATORY PROTECTION:

No special respiratory protection is normally required.

#### VENTILATION:

No special ventilation is necessary.

### 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

#### VISCOSITY (20°C):

20 cP

#### SOLUBILITY:

Completely miscible in water.



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### 10. STABILITY & REACTIVITY

**HAZARDOUS DECOMPOSITION PRODUCTS:**

None known.

**STABILITY:**

Stable

**HAZARDOUS POLYMERIZATION:**

Polymerization will not occur.

**INCOMPATIBILITY:**

May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Avoid prolonged contact with reactive metals such as magnesium and zinc, especially in closed systems where hydrogen gas may accumulate over time.

**SPECIAL PRECAUTIONS:**

READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

Store away from strong oxidizing materials.

### 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.

**DERMAL TOXICITY:**

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 g O<sub>2</sub>/g

BOD<sub>5</sub> @ 20°C: 0.55 g O<sub>2</sub>/g

### 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.

### 14. TRANSPORT INFORMATION

Not restricted under any transport regulations.

### 15. REGULATORY INFORMATION

**ALL OF THE COMPONENTS IN THIS PRODUCT ARE ON THE FOLLOWING INVENTORY LISTS:**

U.S.A. (TSCA)

Europe (EINECS)

Canada (DSL/NDSL)

**TSCA SECTION 12(b):**

None of the components in this product are regulated under TSCA Section 12(b).

**OSHA HAZARD CLASSIFICATION:**

Hazardous Chemical (Irritant);

None of the components in this product are considered highly hazardous by OSHA.

**CERCLA HAZARDOUS SUBSTANCES:**

There is no CERCLA Reportable Quantity for this material.

**SARA 311 CATEGORIES:**

Immediate (Acute) Health Hazard: Yes

Delayed (Chronic) Health Hazard: No

Fire Hazard: Yes

Sudden Release of Pressure Hazard: No

Reactivity Hazard: No

**SARA 313:**

None of the components in this product are subject to reporting under SARA Section 313.

**CLEAN WATER ACT:**

None of the components in this product are listed as Priority Pollutants under the CWA.

None of the components 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, NJ

This product does not contain components 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.

**WHMIS (Canada) CLASSIFICATION:**

Not controlled

### 16. OTHER INFORMATION

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>.

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.