

Safety Data Sheet

Section 1: IDENTIFICATION

PRODUCT IDENTIFIER

CRYOTECH LC17®

Liquid Runway Deicer

Complies with Specification AMS 1435

RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Deicing/anti-icing runways, taxiways, and airside pavements

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address: Cryotech Deicing Technology 6103

Orthoway

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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.

Section 3: COMPOSITION/INFORMATION ON INGREDIENT

MIXTURES

Ingredient	CAS No	Wt. %
Cryotech LC17 Liquid Runway Deicer		100
Aqueous solution containing:		
Propylene Glycol	57-55-6	10-50
Potassium Acetate	127-08-2	10-50
Corrosion inhibitors		< 1%



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Section 4: FIRST- AID MEASURES

DESCRIPTION OF FIRST AID MEASURE

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to Eye

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.

If inhaled, remove to fresh air and get medical advice Inhalation

If swallowed, give milk or water to drink and telephone for medical advice. Do NOT induce Ingestion

vomiting unless directed to do so by medical personnel. Never give anything by mouth to an

unconscious person.

MOST IMPORTANT SYMPTOMS / EFFECTS

May cause temporary eye irritation. Symptoms may include temporary discomfort, excessive Eye

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 Inhalation of aerosol during spraying 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.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT

Note to physicians This product contains potassium acetate. Though ingestion of large amounts of potassium salts

usually results in vomiting, excessive potassium absorption can cause hyperkalemia.

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

FLAMMABILITY

Flash Point (close cup) >100°C (212°F) **Auto Ignition** No data available

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.

Data not available. Not considered to be an explosion hazard. **Explosion Limits Unusual Fire Hazards** This product may become combustible after prolonged heating.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Use protective equipment appropriate for the surrounding materials and environment.



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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 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. Wash the spillage area

with plenty of water. If needed, wash spillage area with plenty of water.

Section 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Handling Avoid eye contact. Avoid breathing mist when spraying.

PRECAUTIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage Store in tightly sealed original 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.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

Exposure Limits Regulation Type of Listing Value
Propylene Glycol US WEEL TWA 10 mg/m³

EXPOSURE CONTROLS

Engineering Controls No special ventilation is usually necessary; however if operating conditions create high airborne 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 ProtectionSafety glasses or goggles are recommended if splashing/spraying is possible.

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

Respiratory Protection No special respiratory protection is usually necessary. Breathing of mist/aerosol should

be avoided. If operating conditions create high airborne concentrations of this material,

the use of an approved respirator is recommended.



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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Clear, colorless to light straw colored liquid. (May

be dyed blue at customer request.)

Odorless to slight vinegar odor **ODOR**

ODOR THRESHOLD No data available pH (20°C, 68°F) 10.5 - 11.5-50°F (-45°C) FREEZING POINT **BOILING POINT** ~ 110°C (220°F) **FLASH POINT** >100°C (212°F) **EVAPORATION RATE** No data available FLAMMABILITY/EXPLOSION LIMITS Not applicable

VAPOR PRESSURE (20°C) No data available **VAPOR DENSITY (AIR = 1)** No data available

RELATIVE DENSITY 1.15

Completely miscible **SOLUBILITY IN WATER** No data available PARTITION COEFFICIENT; n-

OCTANOL/WATER

No data available **AUTO-IGNITION TEMPERATURE DECOMPOSITION TEMPERATURE** No data available

8 cP VISCOSITY (20°C)

OXIDIZING PROPERTIES Not oxidizing **EXPLOSIVE PROPERTIES** Not explosive

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.



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Section 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

LD50 rat-oral: > 5 g/kg (estimated from studies of components)

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 aerosol during spraying 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, IMMEDIATE EFFECTS AND CHRONIC EFFECTS FROM SHORT- AND LONG-TERM EXPOSURE

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. Based on available data, the classification criteria are not met. **STOT-Repeated Exposure 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.

LC50 48 hr Daphnia magna: 4150 mg/L LC50 96 hr Pimephales promelas: 4225 mg/L

PERSISTENCE AND DEGRADABILITY

Biodegradable. BOD₅ (20°C): 0.24 kg O₂/kg fluid; COD: 0.68 kg O₂/kg fluid

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 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

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 311/312 CATEGORIES

Physical hazards	
Explosive	No
Flammable (gases, aerosols, liquids or solids	No
Oxidizer (liquid, solid or gas)	No
Self- reactive	No
Pyrophoric (liquid or solid)	No
Pyrophoric Gas	No
Self-heating	No
Corrosive to metal	No
Gas under pressure (compressed gas)	No
In contact with water emits flammable gas	No
Combustible Dust	No
Hazard Not Otherwise Classified (HNOC)	No

Health hazards	
Acute toxicity (any route of exposure)	No
Skin corrosion or irritation	No
Serious eye damage or eye irritation	No
Respiratory or skin sensitization	No
Germ cell mutagenicity	No
Carcinogenicity	No
Reproductive toxicity	No
Specific target organ toxicity (single or repeated exposure)	No
Aspiration hazard	No
Simple Asphyxiant	No
Hazard Not Otherwise Classified (HNOC)	No

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.

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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: MA

This product contains the following chemicals regulated by New Jersey's Worker and Community Right to Know Act, the Pennsylvania Right to Know Act, and the Minnesota Right to Know Act:

Ingredient	CAS No	Wt. %
Propylene Glycol	57-55-6	10-50

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.

NFPA 704		·	
Health			1
Fire			1
Physical Hazard			0
	Hazard F	Rating 0-4	0-least hazardous; 4-most hazardous

HMIS – Hazardous Materials Identification System		
Health	1	
Fire	1	
Physical Hazard	0	
Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = serious, 4 = severe		

Section 16: OTHER INFORMATION

SDS REVISION DATE

Revision date: August 1, 2021 **Expiration date:** August 1, 2024

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-toknow/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