



CRYOTECH GLACIER RTU[®] LAVATORY FLUID

Safety Data Sheet

Section 1: IDENTIFICATION

PRODUCT IDENTIFIER

CRYOTECH GLACIER RTU[®] LAVATORY FLUID

RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Premixed low-temperature lavatory fluid containing antifreeze, deodorant, and colorant in a ready-to-use formulation.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address: Cryotech Deicing Technology
6103 Orthoway
Fort Madison, IA 52627
United States

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Fax: (319) 372-2662
Email: deicers@cryotech.com
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EMERGENCY TELEPHONE NUMBER

CHEMTREC: (800) 424-9300
Outside U.S.A. & Canada: +1 703-741-5970

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

POTENTIAL HEALTH EFFECTS

Eye Contact May cause temporary eye irritation. Corneal injury is unlikely.

Skin Contact Repeated contact may cause slight skin irritation.

Inhalation Not expected to be an inhalation hazard. Inhalation of droplets may cause irritation of upper respiratory tract.

Ingestion Not expected to be an ingestion hazards.

Effects of repeated exposure In rare cases, repeated excessive exposure may cause central nervous system effects.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURES

Prepared According to the OSHA Hazard Communication Standard (29 CFR 1910.1200)
by Cryotech Deicing Technology, 6103 Orthoway, Fort Madison, IA 52627

Form #MKT2102 Rev. November 28, 2018



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Ingredient	CAS No	Wt. %
Propylene Glycol	57-55-6	35-50
Water	7732-18-5	50-65
Plus other nonhazardous additives such as corrosion inhibitors, fragrance, and colorant		

Section 4: FIRST- AID MEASURES

DESCRIPTION OF FIRST AID MEASURE

Eye	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to 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.
Inhalation	If inhaled, remove to fresh air
Ingestion	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

Eye	May cause minor temporary eye irritation.
Skin	Repeated contact may cause slight skin irritation.
Inhalation	Inhalation of aerosol during spraying may cause physical respiratory tract irritation and coughing. This product is not otherwise expected to be an inhalation hazard.
Ingestion	Not expected to cause significant health effects by accidental ingestion.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT

Specific treatments	If you feel unwell, seek medical advice immediately. Show the label or safety data sheet to medical personnel if possible.
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Section 5: FIRE FIGHTING MEASURES



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FLAMMABILITY

Non-flammable by OSHA/WHMIS criteria

EXTINGUISHING MEDIA

Suitable Extinguishing Media Fine water spray, alcohol-resistant foam, carbon dioxide, or dry chemical. Use extinguishing media appropriate for surrounding materials.

Unsuitable Extinguishing Media Do not use solid water stream, which may spread fire.

SPECIAL HAZARDS

Hazardous Combustion Products Combustion may form carbon monoxide (CO) and/or carbon dioxide (CO₂).

Unusual Fire Hazards Heat from fire can generate flammable vapor. Vapor is heavier than air and may spread along floors. Pressure buildup in sealed containers in high heat conditions may cause container to rupture.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters Wear NIOSH approved self-contained breathing apparatus (SCBA) with positive air pressure and full protective gear.

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/aerosols when spraying.

PRECAUTIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

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



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Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

Exposure Limits	Regulation	Type of Listing	Value
Propylene Glycol	US WEEL	TWA	10 mg/m ³

EXPOSURE CONTROLS

Engineering Controls No special ventilation is usually necessary. Normal use of this product is not expected to result in airborne concentrations above the exposure limit.

INDIVIDUAL PROTECTIVE MEASURES/PERSONAL PROTECTIVE EQUIPMENT

Eye Protection Safety glasses or goggles are recommended if splashing/spraying into eyes is possible.

Skin Protection No special skin protection is usually necessary.

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Blue, mobile liquid, free from matter in suspension
ODOR	Floral
ODOR THRESHOLD	No data available
pH (20°C, 68°F)	5 - 9
FREEZING POINT	<-7°F (-21°C)
BOILING POINT	~105°C (221°F)
FLASH POINT	>104°C (219°F) based on propylene glycol
EVAPORATION RATE	No data available
FLAMMABILITY/EXPLOSION LIMITS	Not applicable
VAPOR PRESSURE (20°C)	~14 mmHg (vapor is almost entirely water fraction)
VAPOR DENSITY (AIR = 1)	No data available
RELATIVE DENSITY	1.02 - 1.05
SOLUBILITY IN WATER	Completely miscible
PARTITION COEFFICIENT; n-OCTANOL/WATER	No data available
AUTO-IGNITION TEMPERATURE	>400°C (752°F) based on propylene glycol
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY (20°C)	<5 cP
OXIDIZING PROPERTIES	Not oxidizing
EXPLOSIVE PROPERTIES	Not explosive



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Section 10: STABILITY AND REACTIVITY

REACTIVITY

No dangerous reactions known under conditions of normal use.

CHEMICAL STABILITY

Stable. Hazardous polymerization will not occur.

POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known under conditions of normal use.

CONDITIONS TO AVOID

Avoid prolonged exposure to temperatures over the boiling point of water. When water has evaporated, material is combustible.

INCOMPATIBLE MATERIALS

Strong oxidizing agents; strong acids; strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS

May decompose into oxides of carbon (e.g., carbon monoxide, carbon dioxide) as well as aldehydes, ethers, and organic acids.

Section 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

No product toxicology data available.

LIKELY ROUTES OF EXPOSURE

Skin contact, eye contact, ingestion.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL, AND TOXICOLOGICAL CHARACTERISTICS

Eye	May cause minor temporary eye irritation.
Skin	Repeated contact may cause slight skin irritation.
Inhalation	This product is not expected to be an inhalation hazard.
Ingestion	Not expected to cause significant health effects by accidental ingestion.

DELAYED AND IMMEDIATE EFFECTS AND CHRONIC EFFECTS FROM SHORT- AND LONG-TERM EXPOSURE/NUMERICAL MEASURES OF TOXICITY

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.



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

PERSISTENCE AND DEGRADABILITY

Biodegradable. COD (TOD): 0.71 g O₂/g deicer; BOD₅ (20°C): 0.25 g O₂/g deicer

BIOACCUMULATIVE POTENTIAL

Bioaccumulation is not expected.

MOBILITY IN SOIL

Adverse effects not expected.

OTHER ADVERSE EFFECTS

None expected.

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

All of 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



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Physical hazards		Health hazards	
Explosive	No	Acute toxicity (any route of exposure)	No
Flammable (gases, aerosols, liquids or solids)	No	Skin corrosion or irritation	No
Oxidizer (liquid, solid or gas)	No	Serious eye damage or eye irritation	No
Self- reactive	No	Respiratory or skin sensitization	No
Pyrophoric (liquid or solid)	No	Germ cell mutagenicity	No
Pyrophoric Gas	No	Carcinogenicity	No
Self-heating	No	Reproductive toxicity	No
Corrosive to metal	No	Specific target organ toxicity (single or repeated exposure)	No
Gas under pressure (compressed gas)	No	Aspiration hazard	No
In contact with water emits flammable gas	No	Simple Asphyxiant	No
Combustible Dust	No	Hazard Not Otherwise Classified (HNOC)	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.

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	35-50

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 Rating 0-4 0-least hazardous; 4-most hazardous	

HMIS – Hazardous Materials Identification System	
Health	1
Fire	1



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Physical Hazard	0
Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = serious, 4 = severe	

Section 16: OTHER INFORMATION

SDS REVISION DATE

Revision date: November 28, 2018

Expiration date: November 28, 2021

Latest version of this SDS can be obtained from Cryotech. November 28

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-to-know/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