

CRYOTECH DEICING TECHNOLOGY -- CRYOTECH E36 LRD (LIQUID RUNWAY DEICER) --
6850-01-446-6449

===== Product Identification =====

Product ID:CRYOTECH E36 LRD (LIQUID RUNWAY DEICER)

MSDS Date:09/01/1999

FSC:6850

NIIN:01-446-6449

MSDS Number: CGXHZ

=== Responsible Party ===

Company Name:CRYOTECH DEICING TECHNOLOGY

Address:6103 ORTHOWAY

City:FORT MADISON

State:IA

ZIP:52627

Country:US

Info Phone Num:WAS C

HEVRON CHEMICAL DEICING TECH.

Emergency Phone Num:800-346-7237 / 319-372-6012

Resp. Party Other MSDS Num.:MSDS #118

CAGE:0S095

=== Contractor Identification ===

Company Name:CRYOTECH DEICING TECHNOLOGY

Address:6103 ORTHOWAY

Box:City:FT MADISON

State:IA

ZIP:52627

Country:US

Phone:319-372-6012 (ALSO FOR INFO)

Contract Num:SP0450-00-M-D508

CAGE:0S095

Company Name:CRYOTECH DEICING TECHNOLOGY

Address:6103 ORTHOWAY

Box:City:FT MADISON

State:IA

ZIP:52627

Country:US

Phone:319-372-6012 (ALSO FOR INFO)

Contract Num:SP0450-00-M-SA82
CAGE:0S095
Company Name:CRYOTECH DEICING TECHNOLOGY
Address:6103 ORTHOWAY
Box:City:FT MADISON
State:IA
ZIP:52627
Country:US
Phone:319-372-6012 (ALSO FOR INFO)
Contract Num:SP0450-99-M-ND05
CAGE:0S095

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Composition/Information on Ingredients
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Ingred Name:POTASSIUM ACETATE
CAS:127-08-2
RTECS #:AJ3325000
= Wt:50.
Other REC Limits:NONE RECOMMENDED

Ingred Name:CORROSION INHIBITOR
< Wt:1.
Other REC Limits:NONE RECOMMENDED

Ingred Name:WA
TER
CAS:7732-18-5
RTECS #:ZC0110000
= Wt:50.
Other REC Limits:NONE RECOMMENDED

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Hazards Identification
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LD50 LC50 Mixture:ORAL LD50 (RATS) > 5.0 G/KG
Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:THIS SUBSTANCE IS SLIGHTLY IRRITATING
TO THE EYES AND COULD CAUSE PROLONGED (DAYS) IMPAIRMENT OF VISION.
THIS SUBSTANCE IS NOT EXPECTED TO CAUSE PROLONGED O

R SIGNIFICANT

SKIN IRRITATION. THIS MATERIAL DOES NOT PRESENT AN INHALATION HAZARD. IF SWALLOWED THIS SUBSTANCE IS CONSIDERED PRACTICALLY NON-TOXIC TO INTERNAL ORGANS. INGESTION MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:EYE PAIN, TEARS, SWELLING, REDNESS, BLURRED VISION. INGESTION MAY CAUSE I

RRITATION OF THE DIGESTIVE TRACT WHICH MAY RESULT IN NAUSEA, VOMITING, DIARRHEA.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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First Aid Measures
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First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP AND WATER. IF IRRITATION PERSIS T, GET MEDICAL ATTENTION. INHALATION: NOHAZARD EXPECT ED.

INGESTION: GIVE WATER OR MILK TO DRINK AND TELEPHONE FOR MEDICAL ADVICE. DO NOT INDUCE VOMITING UNLESS DIRECTED BY MEDICAL PERSONNEL. IF MEDICA L ADVICE CANNOT BE OBTAINED THEN TAKE PERSON AND PRODUCT CONTAINER TO NEAREST MEDICAL EMERGENCY CENTER.

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Fire Fighting Measures
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Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:MATERIAL IS NOT FLAMMABLE.

Fire Fighting Procedures:THIS MATERIAL NOR MALLY WILL NOT BURN.

Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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Accidental Release Measures
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Spill Release Procedures:THIS MATERIAL IS NOT EXPECTED TO BE TOXIC TO AQUATIC ORGANISMS. THIS MATERIAL IS NOT EXPECTED TO PRESENT ANY ENVIRONMENTAL PROBLEM.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage
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Handling and Storage Precautions:READ AND OBSERVE ALL PRECAUT

IONS ON

PRODUCT LABEL. STORE AWAY FROM STRONG OXIDIZING MATERIALS.

Other Precautions:CONTAINS POTASSIUM SALTS. INGESTION OF LARGE AMOUNTS USUALLY CAUSES VOMITING. IF THE PERSON IS NOT SUFFERING FROM A PREEXISTING KIDNEY CONDITION THE ABSORBED POTASSIUM IS RAPIDLY EXCRETED IN THE URINE .

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:NONE REQUIRED UNDER NORMAL CONDITIONS.

Ventilation:NO SPECIAL VENTILATION IS REQUIRED.

Protective Glove

s:AVOID PROLONGED OR REPEATED CONTACT

Eye Protection:CHEMICAL GOGGLES

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health

VERY YOUNG CHILDREN OR INDIVIDUALS WITH COMPROMISED KIDNEY AND/OR CARDIAC FUNCTION COULD EXPERIENCE THE FOLLOWING EFFECTS AFTER

INGESTING EXCESSIVELY LARGE DOSES OF POTASSIUM SALTS: IRRITATION AND INFLAMMATION OF THE STOMACH LINING, MUSCULAR WEAKNESS, BURNING, TINGLING AND NUMBNESS SENSATIONS OF HANDS & FEET.

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===== Physical/Chemical Properties =====

HCC:N1

Boiling Pt:=100.C, 212.F

B.P. Text:APPROXIMATELY

Melt/Freeze Pt:=-40.C, -40.F

Vapor Pres:NDA

Vapor Density:NDA

Spec Gravity:1.28@20C

Viscosity:6.5 CP @ 20C

Evaporation Rate & Reference:NDA

Solubility in Water

er:COMPLETELY MISCIBLE

Appearance and Odor:CLEAR, COLORLESS TO LIGHT STRAW COLORED LIQUID, ODOR NOT SPECIFIED.

Percent Volatiles by Volume:NDA

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS, 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

Stab

ility Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:NONE KNOWN; NORMAL COMBUSTION FORMS
CARBON DIOXIDE AND WATER VAPOR.

===== Toxicological Information =====

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 BA SED ON DATA FROM SIMILAR PRODU
CTS.

DERMAL TOXICITY: NO PRODUCT TOXICOLOGY DATA AVAILABLE. THE HAZARD
EVALUATION WAS BASED ON DATA FROM SIMILAR PRODUCTS.

RESPIRATORY/INHALATION: NO PRODUCT TOXICOLOGY D ATA AVAILABLE. THE
HAZARD EVALUATION WAS BASED ON DATA FROM SIMILAR PRODUCTS.

INGESTION: THE ORAL LD50 IN RATS IS GREATER THAN 5.0 G/KG.

===== Ecological Information =====

Ecological:NO DATA PROVIDED BY RESPONSIBLE PARTY.

===== Disposal Considerations ====
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Waste Disposal Methods:IF PRODUCT SHOULD SPILL OR BE OTHERWISE
UNSUITABLE FOR NORMAL ANTIFREEZE APPLICATIONS, IT MAY BE DISPOSED
OF IN SANITARY LANDFILL UNLESS STATE OR LOCAL REGULATIONS PROHIBIT
SUCH DISPOSAL.

===== MSDS Transport Information =====

Transport Information:DOT: NOT DESIGNATED AS A HAZARDOUS MATERIAL BY
THE FEDERAL DOT.

===== Regulatory Information =====

SARA Title III Information

:SARA SECTION 311/312: IMMEDIATE (ACUTE)

HEALTH EFFECTS: YES. DELAYED (CHRONIC) EFFECTS: NO. FIRE HAZARD:

NO. SUDDEN RELEASE OF PRESSURE HAZARD: NO. REACTIVITY HAZARD: NO.

Federal Regulatory Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

State Regulatory Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):

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