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

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

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

Ingred Name:CORROSION INHIBITOR &It; Wt:1. Other REC Limits:NONE RECOMMENDED

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

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.

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 OBTAINTED THEN TAKE PERSON AND PRODUCT CONTAINER TO NEAREST MEDICAL EMERGENCY CENTER.

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.

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.

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.

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 FOLLOW **ING EFFECTS AFTER** INGESTING EXCESSIVELY LARGE DOSES OF POTASSIUM SALTS: IRRITATION AND INF LAMMATION OF THE STOMACH LINIG, MUSCULAR WEAKNESS, BURING, TINGLING AND NUMBNESS SENSATIONS OF HANDS & FEET. 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 & amp; Reference:NDA Solubility in Wat er:COMPLETELY MISCIBLE Appearance and Odor:CLEAR, COLORLESS TO LIGHT STRAW COLORED LIQUID, ODOR NOT SPECIFIED. Percent Volatiles by Volume:NDA

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: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:NO DATA PROVIDED BY RESPONSIBLE PARTY.

======= Disposal Considerations ===

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.

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

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.

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