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TERMINAL PACKAGING CORP. -- POLAR ANTIFREEZE -- 6850-00-664-1403

Product ID:POLAR ANTIFREEZE MSDS Date:12/19/1989 FSC:6850 NIIN:00-664-1403 **MSDS Number: BHYJX** === Responsible Party === Company Name: TERMINAL PACKAGING CORP. Address:2850 RIVER ROAD City:COUNCIL BLUFFS State:IA ZIP:51501 Country:US Info Phone Num:712-323-9802 OR 800-424-9300 **Emergency Phone Num:712** -323-9802 OR 800-424-9300 Preparer's Name: JERRY MCMILLEN CAGE:0KDB2 === Contractor Identification === Company Name: TERMINAL PACKAGING CORP Address:2850 RIVER RD Box:City:COUNCIL BLUFFS State:IA ZIP:51501 Country:US Phone:712-323-9802 CAGE:0KDB2 Ingred Name: ETHYLENE GLYCOL (SARA III) CAS:107-21-1 RTECS #:KW2975000 Fraction by Wt: 0.95% OSHA PEL:C 50 PPM ACGIH TLV:C 50 PPM, VAPOR; 9192

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EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB Routes of Entry: Inhalation:UNKNOWN Skin:NO Ingestion:YES Health Hazards Acute and Chronic:EYES: MAY CAUSE SLIGHT EYE IRRITATION. SKIN: MAY BE SLIGHTLY IRRITATING UPON PROLONGED CONTACT. RESPIRATORY SYSTEM: DROWSINESS, NARCOSIS & UNCONSCIOUSNESS POSSIBLE UPON EXPOSURE TO HIGH CONCENTRA TIONS IN POORLY VENTILATED, CONFINEDSPACES. LIVER & KIDNEY DAMAGE IN 2 YEAR RAT FEEDING STUDY; 1-2% ETHYLENE GLYCOL.

Effects

of Overexposure:OVEREXPOSURE TO VAPORS OF ETHYLENE GLYCOL ARE ASSOCIATED WITH INJURIES TO LIVER, KIDNEYS, LUNGS, BLOOD & CENTRAL NERVOUS SYSTEM. SKIN ABSORPTION CAN INDUCE CEN- TRAL NERVOUS SYSTEM DEPRESSION & KIDNEY INJURY. IN ADDITION TO THE EFFECTS OFACUTE INGESTION, REPEATED INGESTION CAN INDUCE BRAIN INJURY.

Medical Cond Aggravated by Exposure:NA

First Aid:EYES: IRRIGATE THE EYES IMMEDIATELY FOR 5 MINUTE S, CONSULT

MEDICAL. SKIN: WASH OFF IN FLOWING WATER. DECONTAMINATE CLOTHING & ACCESSORIES BEFORE RE-USE. IN- HALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR, CONSULT MEDICAL. INGESTION:TOXIC BY INGESTION. INDUCE VOMITING IMMEDIATELY. CALL A PHYSICIAN AND/OR TRANS- PORT TO EMERGENCY FACILITY.

Flash Point Method:CC Flash Point:240F/115C Autoignition Temp:Autoignition Temp Text:250F Lower Limits:3.2 Upper Limits:15.3 Extinguishing Media:WATER, ALCOHOL, FOAM, CO2 OR DRY CHEMICAL Fire Fighting Procedures:SELF CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE & PROTECTIVE CLOTHING Unusual Fire/Explosion Hazard:NA

Spill Release Procedures:WEAR SKIN, EYE & RESPIRATORY PROTECTION DURING CLEAN-UP. CONTAIN SPILL & KEEP OUT OF SEWERS & DRAINS, SOAK UP LIQUID WITH ABSORBENT & SHOVEL INTO WASTE CONTAINER.

Handling and Storage Precautions: MINIMUM FEASIBLE HANDLING TEMPERATURES SHOULD BE MAINTAINED. PERIODS OF EXPOSURE TO HIGH TEMPERA- TURES SHOULD BE MINIMIZED. ETHYLENE GLYCOL BASE.

Other Precautions:HARMFUL OR FATAL IF SWALLOWED. KEEP OUT OF REACH OF CHILDREN. MAY CAUSE IRRITA- TION TO EYES. DO NOT DRINK ANTIFREEZE OR SOLUTION. AVOID CONTACT WITH EYES. WASHTHOROUGHLY AFTER HANDLING. DO NOT STORE IN OPEN OR UNLABELED CON TAINERS.

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

Respiratory Protection:OSHA-NIOSH APPROVED RESPIRATOR FOR FUMES WITH TLV>.05 MG/M3.

Ventilation:LOCAL EXHAUST, RECOMMENDED

Protective Gloves: IMPERVIOUS GLOVES

Eye Protection: GOGGLES OR FACE SHIELD AND OR EYE WASH

Other Protective Equipment: APRON-COVER ARMS, DEPENDING UPON CONDITIONS OF USE.

Work Hygienic Practices: PREVENT SKIN AND EYE CONTACT. OBSERVE TLV LIMITATIONS.

Supplemental Safety and Health

FOLLOW

PROCEDURES SPECIFIED IN THE NATIONAL FIRE PROTECTION ASSOCIATION CODES AND STANDARDS FOR HANDLING COMBUSTIBLE LIQUIDS. PREVENT SKIN AND EYE CONTACT. AVOID BREATHING VAPORS AND AEROSOLS. THORO UGH SHOWERING AT END OF WORK SHIFT IS STRONGLY RECOMMENDED. WORK CLOTHES SHOULD BE LAUNDERED DAILY.

Boiling Pt:B.P. Text:325 F/162 C Melt/Freeze Pt:M.P/F.P Text:0 F/-20 C Decomp Temp:Decomp Text:NA Vapor Pres:0.06 @ 68F

Vapor Density:2.0 Spec Gravity:1.12 (H2O=1) pH:10-11 Viscosity:100F/SUS