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Product ID: ETHYLENE GLYCOL TECH MSDS Date:07/09/2001 FSC:6810 NIIN:00-006-4205 Status Code:A MSDS Number: CLGZF === Responsible Party === Company Name: ASHLAND INC. Address:30TH AND JAMES STS Box:945 City:COVINGTON, State:KY ZIP:41015 Country:US Info Phone Num:1-800-325-3751 Emergency Phone Num:1-800-274-52 63 Resp. Party Other MSDS Num.:301.0000003-009.011 Preparer's Name:NOT PROVIDED CAGE:6B275 === Contractor Identification === Company Name: ASHLAND INC. Address:30TH AND JAMES STS Box:945 City:COVINGTON, State:KY ZIP:41015 Country:US Phone:1-800-325-3751 CAGE:6B275 Company Name: TELECHEM INTERNATIONAL, INC Address:524 E WEDDELL DRIVE SUITE 3 Box:City:SUNNYVALE State:CA ZIP:94089-2115 Country:US Phone:916-941-3688 Contract Num:SP0450-01-M-ZE11 CAGE:1KH20

======= Composition/Information on In

gredients =========

Ingred Name: ETHYLENE GLYCOL CAS:107-21-1 RTECS #:KW2975000 = Wt:100. Other REC Limits:NOT PROVIDED **OSHA PEL:C 50 PPM** ACGIH STEL:C127 MG/M3:C50 PPM EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB LD50 LC50 Mixture:NOT PROVIDED Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: EYE: CAN CAUSE IRRITATION. SYMPTOMS INCLUDE STINGING, TEARING, REDNESS, AND SWELLING. SKIN: MAY CAUSE MILD SKIN IRRITATION. SYMPTOMS MAY INCLUDE REDNESS AND BURNING. ALTHOUGH RARE, SKIN CONTACT WITH E THYLENE GLYCOL MAY CAUSE ALLERGIC SKIN REACTION. PASSAGE OF THIS MATERIAL INTO BODY THROUGH SKIN IS POSSIBLE AND MAY ADD TO TOXIC EFFECTS FROM BREATHING OR SWALLOWING. SWALLOWING: SMALL AMOUNTS DURIN G NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. SWALLOWING LARGE AMOUNTS MAY **BE HARMFUL CAUSING LIVER, K** IDNEY, BRAIN DAMAGE. INHALATION: SMALL AMOUNTS NOT LIKELY TO CAUSE HARMFUL EFFECTS. LA RGE AMOUNTS MAY BE HARMFUL. Explanation of Carcinogenicity: THIS MATERIAL IS NOT EXPECTED TO CAUSE CANCER IN HUMANS SINCE IT DID NOT CAUSE CANCER IN LABORATORY ANIMALS. THIS MATERIAL IS NOT LISTED AS A CARCINOGEN BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CAN CER, THE NATIONAL TOXICOLOGY PROGRAM, OR THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. Effects of Overexposure:SIGNS AND SYMPTOMS THROUGH BREATHING, SWALLOWING. AND/OR SKIN ABSORPTION MAY INCLUDE: STOMACH OR INTESTINAL UPSET (NAUSEA, VOMITING, DIARRHEA) IRRITATION (NOSE, THROAT, AIRWAYS), COUGH, CENTRAL NERVOU S SYSTEM EXCITATION (GIDDINESS, LIVELINESS, LIGHT-HEADED FEELING) FOLLOWED BY CENTRAL NERVOUS SYSTEM DEPRESSION (DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, UNCONSCIOUSNESS) AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS, INVOLUNTARY EYE MOVEMENT, CYANOSIS (CAUSES BLUE COLORING OF THE SKIN AND NAILS FROM LACK OF OXYGEN), LUNG EDEMA (FLUID BUILDUP IN THE LUNG TISSUE), KIDNEY AND LIVER DAM AGE, CONVULSION, COMA, AND DEATH.

Medical Cond Aggravated by Exposure:PRE-EXISTING DISORDERS OF LUNG, LIVER, KIDNEY, CENTRAL NERVOUS SYSTEM

First Aid:EYES: FLUSH GENTLY WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS APART. SEEK MEDICAL ATTENTION AT ONCE. SKIN: REMOVE CONTAMINATED C
LOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. SWALLOWING: DO NOT INDUCE VOMITING; ASPIRATION HAZARD. IF DROWSY OR UNCONSCIOUS, PLACE ON LEFT SIDE WITH THE HEAD DOWN. SEEK MEDICAL ATTENTION. INHALATION: IF SYMPTOMS DEVELO P, IMMEDIATELY MOVE INDIVIDUAL AWAY FROM EXPOSURE AND INTO FRESH AIR. SEEK IMMEDIATE MEDICAL ATTENTION. KEEP PERSON WARM AND QUIET. IF PERSON IS NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION. IF BREATH IN
G IS DIFFICULT, ADMINISTER OXYGEN.

Flash Point Method:TCC Flash Point:=111.1C, 232.F Autoignition Temp:=397.8C, 748.F Lower Limits:3.2 Upper Limits:15.3 Extinguishing Media:WATER FOG, CARBON DIOXIDE, DRY CHEMICAL Fire Fighting Procedures:WEAR A SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WITH APPROPRIATE TURN-OUT GEAR AND CHEMICAL RESISTANT PERSONAL PR OTECTIVE EQUIPMENT. NO SP ECIAL PRECAUTIONS NECESSARY WHEN FIGHTING FIRES INVOLVING THIS PRODUCT. Unusual Fire/Explosion Hazard:NEVER USE WELDING OR CUTTING TORCH ON OR

NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

Spill Release Procedures:SMALL SPILL: ABSORB ON VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL. LARGE SPILL: ELIMINATE ALL IGNITION SOURCES. WEAR PR OTECTIVE EQUIPMENT. STOP SPILL AT SOURCE. PREVENT FROM ENTERING SEW ERS, DRAINS, STREAM. PREVENT FROM SPREADING. IF RUNOFF OCCURS, NOTIFY PROPER AUTHORITIES AS REQUIRED. PUMP/VACUUM TRANSFER TO CLEAN CONTAINERS FOR RECOVERY. ABSORB UNRECOVERABLE MATERIAL FOR DISPOSAL. Neutralizing Agent:NOT RELEVANT Handling and Storage Precautions: CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CON TAINERS RETAIN PRODUCT RESIDUE (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVE D. Other Precautions:NOT PROVIDED Respiratory Protection: IF WORKPLACE EXPOSURE LIMIT(S) IS EXCEEDED, A NIOSH/MSHA APPROVED AIR SUPPLIED RESIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS PERMIT OTHER NIOSH/MSHA RESPIRATORS (NE GATIVE PRESSURE TYPE) UNDER SPECIFIED CONDITIONS (SEE YOUR INDUSTRIAL HYGIENIST). ENGINEERING/ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE. Ventilation: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S) Protective Gloves:NATURAL/NITRILE RUBBER, POLYVINYL CHLORIDE/ALCOHOL. POLYETHYLENE, NEOPRENE Eye Protection: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA **REGULATIONS ARE ADVISED.** Other Protective Equipment: IMPERVIOUS CLOTH ING AND BOOTS Work Hygienic Practices:NOT PROVIDED Supplemental Safety and Health TARGET ORGAN EFFECTS: OVEREXPOSURE CAUSES LIVER AND KIDNEY DAMAGE, REPRODUCTIVE EFFEDTS IN LABORATORY ANIMALS. N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED. CNS = CENTRAL NERVOUS SYSTEM.

HCC:V5 NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:379-401F Melt/Freeze Pt:=-12.6C, 9.F Decomp Temp:Decomp Text:NOT PROVIDED Vapor Pres: