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FISHER SCIENTIFIC CHEMICAL DIV -- ETHYL ETHER, E1381 -- 6810-00-264-6607

Product ID: ETHYL ETHER, E1381 MSDS Date:03/03/1994 FSC:6810 NIIN:00-264-6607 MSDS Number: CDVHL === Responsible Party === Company Name: FISHER SCIENTIFIC CHEMICAL DIV Address:1 REAGENT LANE **City:FAIR LAWN** State:NJ ZIP:07410 Country:US Info Phone Num:201-796-7100 Emergency Phone Num:800-424-93 00 (CHEMTREC) CAGE:1B464 === Contractor Identification === Company Name: FISHER SCIENTIFIC CO. CHEMICAL MFG DIV Address:1 REAGENT LANE Box:City:FAIRLAWN State:NJ ZIP:07410-2802 Country:US Phone:201-796-7100 CAGE:1B464

Ingred Name:ETHANE, 1,'1-OXYBIS-; (ETHYL ETHER) (CERCLA) CAS:60-29-7 RTECS #:KI5775000 Fraction by Wt: 100% OSHA PEL:400 PPM ACGIH TLV:400PPM/500STEL EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:EFTS OF

OVEREXP: ALBUMIN MAY APPEAR IN URINE & POLYCYTHEMIA IN BLOOD. 19,000 PPM IS CONSIDERED LOWEST ANESTH- (ING 3) RTECS #:9999999ZZ

Ingred Name:ING 2: PRODUCING DOSE. THEREFORE, THERE IS A LGE MARGIN OF SFTY BETWEEN CONCS CAUSING NASAL IRRIT & THOSE CAUSING(ING 4) RTECS #:9999999ZZ

Ingred Name:ING 3: ANESTH, PERM DMG/DEATH. DEATH HAS BEEN REPORTED FROM RESP PARAL. SKIN: MAY CAUSE IRRIT BY DEFAT & DRYING (ING 5) RTECS #:9999999ZZ

Ingred Name:ING 4: OF SKIN. ABSORPTION THRU HUMAN SKIN I S NOT GREAT

ENOUGH TO CAUSE DELETERIOUS EFT. EYES: VAPS MAY CAUSE (ING 6) RTECS #:9999999ZZ

Ingred Name:ING 5: IRRIT. UNDILUTED LIQ MAY CAUSE PAINFUL INFLAMM OF TRANSITORY NATURE. EXAMINATION OF HUMAN EYE AFTER A (ING 7) RTECS #:9999999ZZ

Ingred Name:ING 6: GENEROUS SPLASH SHOWED DULLING OF CORNEA. INGEST: MAY CAUSE CNS DEPRESS W/NAUS, VOMIT, DROW, & DIZZ. (ING 8) RTECS #:9999999ZZ

Ingred Name:ING 7: FATAL AMT IS ESTIMATED AT 1-2 OZ. SYMPS MAY BE SIMILAR TO ETHANOL INTOXICATIO N EXCEPT THAT ONSET IS MORE (ING 9) RTECS #:9999999ZZ

Ingred Name:ING 8: RAPID & DURATION IS SHORTER. BECAUSE OF ITS VOLATILITY, STOM MAY BECOME PROMPTLY DISTENDED WHICH MAY (ING 10) RTECS #:9999999ZZ

Ingred Name:ING 9: HINDER BRTHG. CHRONIC: INHAL: RPTD/PRLNG EXPOS MAY CAUSE ANOREXIA, EXHAUSTION, HDCH, DROW, DIZZ, (ING 11) RTECS #:9999999ZZ

Ingred Name:ING 10: EXCITATION, & PSYCHIC DISTURB. DMG TO LIVER & KIDNEY MAY OCCUR. TOLERANCE MAY BE ACQUIRED THRU RPTD (ING 12) RTECS #:9999

## 999ZZ

Ingred Name:ING 11: EXPOS. SKIN: RPTD/PRLNG EXPOS MAY CAUSE DERM W/CRACKING & DRYING OF SKIN DUE TO EXTRACTION OF OILS. (ING 13) RTECS #:9999999ZZ

Ingred Name:ING 12: EYES: RPTD/PRLNG EXPOS MAY CAUSE CONJ. INGEST: RPTD DRINKING OF ETHER HAS BEEN REPORTED RESULTING IN (ING 14) RTECS #:9999992Z

Ingred Name:ING 13: THE DEVELOPMENT OF THE "ETHER HABIT" AND GENERAL DEBILITY. RTECS #:9999999ZZ

Ingred Name:FIRST AID PROC: LIFTING UPPER & LOWER LIDS, UNTIL NO EVIDENCE OF CHEM REMAINS (APPROX 15-20 MIN). GET MED ATTN (ING 16) RTECS #:9999999ZZ

Ingred Name:ING 15: IMMED. INGEST: ESTABLISH AIRWAY & MAINTAIN RESP. REMOVE VOLAT ANESTH BY FORCED VENT. GET MED ATTN IMMED.(ING 17) RTECS #:9999999ZZ

Ingred Name:ING 16: NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. RTECS #:9999999ZZ

Ingred Name:SUP DAT: HOSE HOLDER/MONITOR NOZZ; IF THIS IS IMPOSS, WITHDRAW FROM AREA & LET FIRE BURN. WITHDRAW IMMED IN CASE(ING 19) RTECS #:9999999ZZ

Ingred Name:IN

G 18: RISING SOUND FROM VENTING SFTY DEVICE/ANY DISCOLORATION OF TANK DUE TO FIRE. ISOLATE FOR 1/2 MILE IN ALL(ING 20) RTECS #:9999999ZZ

Ingred Name:ING 19: DIRECTIONS IF TANK, RAIL CAR/TANK TRUCK IS INVOLVED IN FIRE. EXTING ONLY IF FLOW CAN BE STOPPED; USE (ING 21) RTECS #:9999999ZZ

Ingred Name:ING 20: WATER IN FLOODING QTYS AS FOG. SOLID STREAMS MAY SPREAD FIRE. COOL CONTRS W/FLOODING AMTS OF WATER, (ING 22) RTECS #:9999999ZZ

Ingred Name: ING 21: APPLY FROM AS FAR DIST AS POS

S. AVOID BRTHG TOX

VAPS. KEEP UPWIND. EVACUATE TO RADIUS OF 1500 FEET FOR (ING 23) RTECS #:9999999ZZ

Ingred Name:ING 22: UNCONTROLLABLE FIRES. CONSIDER AVACUATION OF DOWNWIND AREA IF MATL IS LEAKING. WATER MAY BE INEFFECTIVE. RTECS #:9999999ZZ

Ingred Name:EXPLO HAZ: EXPLO PEROXIDES IF EXPOSED TO AIR/LIGHT FOR LONG PERIODS OF TIME. VAPS ARE HVR/AIR & MAY TRAVEL A (ING 25) RTECS #:9999992Z

Ingred Name:ING 24: CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASHBACK. RTECS #:99 999992Z

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE: INHAL: IRRIT/NARCOTIC. 19,000 PPM IMMED DANGEROUS TO LIFE/HLTH. VAPS MAY CAUSE IRRIT TO RESP TRACT. HUMAN ODOR DETECTION MAY BEGIN @ 0.7 PPM. NASAL IRRIT MAY OCCUR @ 200 PPM. HIGHER CONCS MAY B EGIN TO PRDCE C

NS DEPRESS

W/DROW, DIZZ,NAUS, HDCH, STUPOR, & UNCON. HOWEVER, CONCS OF 7000 PPM HAVE (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HLTH HAZ: BEEN TOLERATED BY SOME WORKERS W/OUT UNTOWARD EFTS. INITIAL SYMPS MAY INCL VOMIT, PALLOR, EXCITEMENT TO DROW, LOWERING OF PULSE & BODY TEMP, IRREG RESP, MUSC RELAXATION, & EXCESS SALIVATION. TEMPORARY AFTER EFTS OF EXPOS MAY INCLVOMIT, SALIVATION, IRRIT OF RESP PASSAGES, HDCH, & DEPRESS/EXCITA

TION.

(ING 2)

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

First Aid:INHAL: REMOVE TO FRESH AIR IMMED. IF BRTHG HAS STOPPED, PERFORM ARTF RESP. KEEP WARM & AT REST. TREAT SYMPTOMATICALLY & SUPPORTIVELY. GET MED ATTN IMMED. SKIN: REMOVE CONTAM CLTHG & SHOES IMMED. WASH AFFECTED AREA W/SOAP/MILD DETERGENT & LGE AMTS OF WATER UNTIL NO EVIDENCE OF CHEM REMAINS (APPROX 15-20 MIN). GET ME ATTN IMMED. EYE: WASH IMMED W/LGE ATMS OF WATER/NORM SALINE, OCCAS (ING 15)

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Flash Point Method:CC
Flash Point:-49F,-45C
Lower Limits:1.9%
Upper Limits:48%
Extinguishing Media: DRY CHEM, CARBON DIOXIDE, WATER
SPRAY/ALCOHOL-RESIST FOAM. FOR LARGER FIRES, USE WATER SPRAY,
FOG/ALCOHOL-RESIST FOAM.
Fire Fighting Procedures:WEAR NIOSH APPRVD SCBA & FULL PROT EQUIP .
MOVE CONTR FROMFIRE AREA IF YOU CAN DO IT W/O UT RISK. APPLY COOLING
WATER TO SIDES OF CONTRS THAT ARE (SUP DAT)
Unusual Fire/Explosion Hazard:DANGEROUS FIRE & EXPLO HAZ WHEN EXPOSED
TO HEAT/FLAME. MAY ACCUM STATIC ELEC CHARGES THAT RSLT IN IGNIT OF
ITS VAPS. VAP-AIR MIXS ARE EXPLO. MAY FORM (ING 24)
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Spill Release Procedures: SHUT OFF IGNIT SOURCES. STOP LEAK IF YOU CAN
DO IT W/OUT RISK. USE WATER SPRAY TO REDUCE VAPS. FOR SML SPILLS,
TAKE UP W/SAND/OTH
ER ABSORB MATL & PLACE INTO CONTRS FOR LATER
DISP. FOR LARGER SPILLS, D IKE FAR AHEAD OF SPILL FOR LATER DISP.
(SUP DAT)
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.
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Handling and Storage Precautions: PROT AGAINST PHYSICAL DMG. DETACHED
OUTSIDE STOR IS PREF. INSIDE STOR SHOULD BE IN STD FLAM LIQS STOR
ROOM/CABINET. ISOLATE FROM OTHER COMBUST MATLS.
Other Precautions: AVOID DIRECT SUNLIGHT. PROT AGAINST STATI
LIGHTNING. FOR LGE QTY STOR ROOMS, PROT W/AUTOMATIC SPRINKLER SYS & TOTAL FLOODING CARBON DIOXIDE SYS. FOR MORE SPECIFIC INFORMATION ON
HANDLING/STORA GE PRECAUTIONS, CONTACT NEHC .
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Respiratory Protection: USE NIOSH APPROVED RESPIRATOR APPROPRIATE FOR
EXPOSURE OF CONCERN . FOR MORE SPECIFIC INFORMATION ON RESPIRATORY

EXPOSURE OF CONCERN . FOR MORE SPECIFIC INFORMATION ON RESPIRATORY PROTECTION, CONTACT NEHC . Ventilation:PROVIDE GENERAL DILUTION VENTILATION TO MEET

PUBLISHED EXPOSURE LIMITS. VENTILATION EQUIPMENT MUST BE EXPLOSION-PROOF. Protective Gloves: IMPERVIOUS GLOVES. Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES . Other Protective Equipment: EMERGENCY EYEWASH & DELUGE SHOWER MEETING ANSI DESIGN CRITERIA . WEAR IMPERVIOUS CLOTHING TO PREVENT SKIN CONTACT. Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health CNDTNS TO AVOID: SOMETIMES FORM WHICH MAY EXPLODE SPONT/WHEN HEATED. SPILL PROC: NO SMKNG, F LAMES/FLARES IN HAZ AREA. KEEP UNNEC PEOPLE AWAY; ISOLATE HAZ AREA & DENY ENTRY. FIRE FIGHT PROC: EXPOSED TO FLAMES UNTIL WELL AFTER FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS. FOR MASSIVE FIRE IN CARGO AREA, USE UNMANNED(ING 18) Boiling Pt:B.P. Text:95.0F,35.0C Melt/Freeze Pt:M.P/F.P Text:-190F,-123C Vapor Pres:442 Vapor Density:2.6 Spec Gravity:0.7 Evaporation Rate & amp; Reference: 37.5 (BUTYL ACETATE=1) Solubili ty in Water:6.9% Appearance and Odor: COLORLESS, VOLATILE, MOBILE LIQUID W/ETHEREAL ODOR **& BURNING SWEET TASTE** Stability Indicator/Materials to Avoid:YES CHLORINE, IODINE, LITHIUM, NITRIC ACID, OXYGEN, STRONG OXIDIZERS, HALOGENS. FOR MORE SPECIFIC INFO CONT NEHC . Stability Condition to Avoid: IN PRESENCE OF OXYGEN/ON LONG STANDING/WHEN CONTAINED IN BOTTLES & EXPOSED TO SUNLIGHT, UNSTABLE PEROXIDES (SUP DAT) Haza rdous Decomposition Products: THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF CARBON. 

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS .

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