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

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

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

========== Composition/Information on Ingredients ==========

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 #:9999999ZZ

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 #:9999999ZZ

Ingred Name:ING 24: CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASHBACK.
RTECS #:99
99999ZZ

========== Hazards Identification ==========

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 Measures ==========

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

D
ATTN IMMED. EYE: WASH IMMED W/LGE ATMS OF WATER/NORM SALINE, OCCAS (ING 15)

========== Fire Fighting Measures ==========

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)

========== Accidental Release Measures ==========

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.

========== Handling and Storage ==========

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
C ELEC &
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 .

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

Respiratory Protection:USE NIOSH APPROVED RESPIRATOR APPROPRIATE FOR 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)

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

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 & 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 and Reactivity Data ==========

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.

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

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

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