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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 #:9999992Z
- 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 #:9999992Z
- 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 #:9999992Z
- Ingred Name:ING 5: IRRIT. UNDILUTED LIQ MAY CAUSE PAINFUL INFLAMM OF TRANSITORY NATURE. EXAMINATION OF HUMAN EYE AFTER A (ING 7) RTECS #:9999992Z
- Ingred Name:ING 6: GENEROUS SPLASH SHOWED DULLING OF CORNEA. INGEST: MAY CAUSE CNS DEPRESS W/NAUS, VOMIT, DROW, & DIZZ. (ING 8) RTECS #:9999992Z
- 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 #:9999992Z
- Ingred Name:ING 10: EXCITATION, & PSYCHIC DISTURB. DMG TO LIVER & KIDNEY MAY OCCUR. TOLERANCE MAY BE ACQUIRED THRU RPTD (ING 12) RTECS #:9999

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 #:9999992Z

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 #:9999992Z

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 #:9999992Z

Ingred Name:ING 22: UNCONTROLLABLE FIRES. CONSIDER AVACUATION OF DOWNWIND AREA IF MATL IS LEAKING. WATER MAY BE INEFFECTIVE. RTECS #:9999992Z

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)

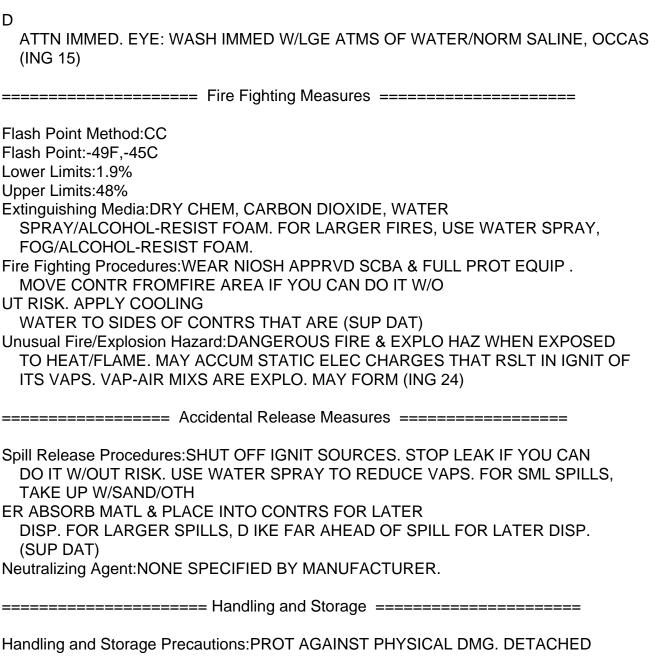
Explanation of Carcinogenicity: NOT RELEVANT.

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: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



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

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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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