View NSN Online: https://aerobasegroup.com/nsn/6810-00-890-2091

FISHER SCIENTIFIC -- ETHYLENE GLYCOL, E-178 -- 6810-00-890-2091

Product ID:ETHYLENE GLYCOL, E-178

MSDS Date:07/14/1993

FSC:6810

NIIN:00-890-2091

MSDS Number: CDXBJ === Responsible Party ===

Company Name: FISHER SCIENTIFIC

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ ZIP:07410 Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:201-796-7100

CAGE:1B464

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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:ETHYLENE GLYCOL (SARA 313) (CERCLA). LD50:(ORAL,RAT) 4700

MG/KG. CAS:107-21-1

RTECS #:KW2975000 Fraction by Wt: 99.9% OSHA PEL:50 PPM (MFR) ACGIH TLV:50 PPM, VAPOR, C

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:1,4-DIOXA

NE; (DIETHYLENE DIOXIDE) (SARA 313) (CERCLA)

CAS:123-91-1

RTECS #:JG8225000 Fraction by Wt: 0.0026% OSHA PEL:100 PPM, S ACGIH TLV:25 PPM, S EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:SUPDAT:ACUTE RENAL FAILURE W/UREMIA, PERIPHERAL EDEMA, ASCITES, PULM EDEMA, DROW, CYANOSIS, COMA & DEATH IN 7-10 (ING 4) RTECS #:9999992Z

Ingred Name:ING 3:DAYS IS POSS. PERM CEREBRAL DMG MAY OCCUR IN SURVIVORS OF PRLNG COMA/CONVLS. CHRONIC:INHAL:HUMANS EXPOS TO (ING 5)

RTECS #:9999999ZZ

Ing

red Name:ING 4:AEROSOLS FROM 3-67 MG/M3 CONTINUOUSLY FOR 1 MONTH REPORTED IRRIT OF RESP TRACT, OCCAS SLIGHT HDCH & LOW (ING 6) RTECS #:9999999ZZ

Ingred Name:ING 5:BACKACHE. RPTD EXPOS TO SATURATED ING 1 VAPS PRDCD SLIGHT NARCOS IN RATS. EFTS ON FETUS HAVE BEEN REPORTED (ING 7) RTECS #:9999992Z

Ingred Name:ING 6:IN RATS & MICE FOLLOWING EXPOS DURING GESTATION. SKIN:SLIGHT MACERATING ACTION MAY RSLT FROM VERY SEV, (ING 8) RTECS #:9999992Z

Ingred Name:ING 7:PRLNG EXPOS. RPTD/PRLNG
CONT MAY RSLT IN SENSIT &
DERM. EYE:RATS EXPOS CONTINUOUSLY TO 12 MG/M3 FOR SEVERAL(ING 9)
RTECS #:9999999ZZ

Ingred Name:ING 8:DAYS SOMETIMES SHOWED SEV EYE IRRIT, EDEMA OF EYELIDS, CORNEAL OPACITY & APPARENT BLINDNESS, W/OUT SIGNS (ING 10) RTECS #:9999999ZZ

Ingred Name:ING 9:OF SYSTEMIC INTOX. INGEST:RPTD DAILY INGEST OF 15-30 ML MAY CAUSE OLIGURIA W/IN 24-72 HRS, WHICH MAY (ING 11) RTECS #:9999999ZZ

Ingred Name:ING 10:PROGRESS RAPIDLY TO ANURIA & UREMIA. RPTD ADMIN TO ANIMAL

S RSLTD IN SHORTENED LIFE SPAN, CALCIUM OXALATE (ING 12) RTECS #:9999999ZZ

Ingred Name:ING 11:BLADDER STONES, SEV RENAL INJURY, PARTICULARLY OF TUBULES & CENTRILOBULAR DEGENERATION OF THE LIVER.

RTECS #:9999992Z

Ingred Name:FIRST AID PROC:REMAINS (FOR AT LST 15-20 MINS). GET MED ATTN. INGEST:REMOVE BY GASTRIC LAVAGE/EMESIS. GIVE ARTF (ING 14) RTECS #:9999992Z

Ingred Name:ING 13:RESP W/OXYG IF RESP IS DEPRESSED. GET MED ATTN IMMED. ANTIDOTE:GIVE ETHANOL, 50% (100 PROOF), 1.5 ML/K G (ING 15)
RTECS #:9999999ZZ

Ingred Name:ING 14:ORALLY INITIALLY, DILUTED TO NOT >5% SOLN, FOLLOWED BY 0.5-1 ML/KG EVERY 2 HRS ORALLY/IV FOR 4 DAYS TO (ING 16) RTECS #:9999992Z

Ingred Name:ING 15:PVNT METABOLISM OF INGESTED ING 1 TO OXALATE. BLOOD ETHANOL LEVEL SHOULD BE IN RANGE 1-1.5 MG/ML. GIVE (ING 17) RTECS #:9999999ZZ

Ingred Name:ING 16:CALCIUM GLUCONATE, 10 ML OF 10% SOLN DILUTED IN 1 LITER OF 5% GLUCOSE, IV AS NEC TO MAINTAIN NORMAL SERUM(ING 18) RTECS #:9999999ZZ

Ingred

Name:ING 17:CALCIUM LEVELS. CALCIUM ADMIN MAY CAUSE ANURIA. IN ABSENCE OF RENAL IMPAIRMENT, FORCE FLUIDS TO 4 LITERS (ING 19) RTECS #:9999999ZZ

Ingred Name:ING 18:DAILY TO INCR EXCRETION/PERFORM HEMODIALYSIS.

ANTIDOTE SHOULD BE ADMINISTERED BY QUALIFIED MEDICAL PERSONNEL.

RTECS #:9999999ZZ

Ingred Name:RESP PROT:RESP W/FULL FACEPIECE OPERATED IN PRESS-DEMAND/OTHER POS PRESS MODE OR W/FULL FACEPIECE, HELMET/HOOD (ING 21)

RTECS #:9999999ZZ

Ingred Name: ING 20: OPERATED IN CONTINUO

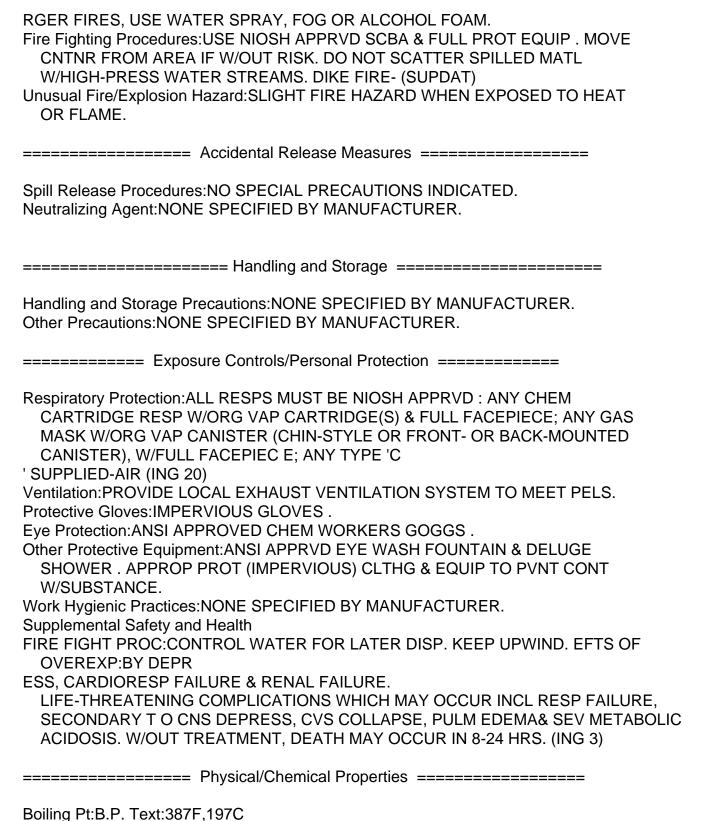
US-FLOW MODE; ANY SCBA W/FULL FACEPIECE OPERATED IN PRESS-DEMAND/OTHER POS PRESSURE MODE. RTECS #:9999999ZZ Ingred Name: MATLS TO AVOID: OF MATERIALS TO AVOID CONTACT NEHC. RTECS #:9999999ZZ LD50 LC50 Mixture: SEE INGREDIENT 1. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE:INHAL:UNLIKELY AT ROOM TEMP. **AEROSOLS AT 140** MG/M3 WERE IRRIT & 200 MG/M3 WERE INTOLERABLE CAUSING BURNING SENSATION OF THROAT & COUGH. HIGH CONCS MAY RSLT IN EFTS ON HEMATOPOIETIC SYS & CNS W/H DCH, DIZZ & DROW. SKIN CONT:LIQ MAY DEFAT & CAUSE MINOR IRRIT. ANIMAL STUDIES INDICATE LETHAL AMTS MAY (EFTS OF OVEREXP) Explanation of Carcinogenicity: NOT RELEVANT Effects of Overexposure: HLTH HAZ: BE ABSORBED THRU INTACT SKIN. SENSIT RXNS MAY OCCUR IN PREVIOUSLY EXPOS PERS. EYE CONT: VAPS MAY CAUSE REDNESS & CONT W/LIQ MAY C AUSE CONJ & IRIDOCYCLITIS, BUT NO PERM DMG. INGEST:ESTIMATED LE THAL DOSE FOR ADULTS IS 100 ML. THERE ARE 3 STAGES OF INTOX FOLLOWING INGEST OF ING 1:CNS STIMULATION FOLLOWED (SUPDAT) Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER. First Aid:INHAL:REMOVE TO FRESH AIR IMMED. IF BRTHG STOPPED, PERFORM ARTF RESP. KEEP WARM & AT REST. TREAT SYMPTOMATICALLY & SUPPORTIVELY. GET MED ATTN. SKIN :REMOVE CONTAM CLTHG & SHOES IMMED. WASH AFFECTED ARE A W/SOAP & WATER UNTIL NO EVID OF CHEM REMAINS (APPROX 15-20 MINS). GET MED ATTN. EYES:WASH IMMED W/LG AMTS OF

WATER/NORMAL SALINE, OCCAS LIFTING UPPER & LOWER LIDS, UNTIL NO **EVID OF CHEM (ING 13)** 

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

Flash Point Method:CC Flash Point:232F,111C Lower Limits: 3.2% Upper Limits:15.3%

Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR FOAM. FOR LA



Melt/Freeze Pt:M.P/F.P Text:9F,-13C

Vapor Pres:0.05 @ 20C Vapor Density:2.14 Spec Gravity:1.1

Solubility in Water:SOLUBLE Appearance and Odor:HYGROS

COPIC, CLEAR, COLORLESS, ODORLESS, SWEET-TASTING, SYRUPY LIQUID.

======== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS, POTASSIUM PERMANGANATE, SODIUM HYDROXIDE, SODIUM PEROXIDE, SULFURIC ACID. FOR A COMPLETE LIST (ING 22)

Stability Condition to Avoid: NONE REPORTED.

Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF CARBON.

====== Disposal Consideration s ==========

Waste Disposal Methods:DISPOSAL MUST BE I/A/W FEDERAL, STATE & LOCAL REGULATIONS.

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