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FISHER SCIENTIFIC -- 1,2-DICHLOROETHANE, E-175 -- 6810-00-003-3043

Product ID:1,2-DICHLOROETHANE, E-175 MSDS Date:12/07/1994 FSC:6810 NIIN:00-003-3043 MSDS Number: CDWZB === 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:800-424-9300(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, 1,2-DICHLORO-; (1,2-DICHLOROETHANE) (SARA 313) (CERCLA) CAS:107-06-2 RTECS #:KI0525000 Fraction by Wt: 100% OSHA PEL:50 PPM ACGIH TLV:10 PPM EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:SUPDA

T:AWAY FROM ENDS OF TANKS. FOR MASSIVE FIRE IN CARGO AREA, USE UNMANNED HOSE HOLDER/MONITOR NOZZ; IF THIS IS(ING 3) RTECS #:9999999ZZ

Ingred Name:ING 2:IMPOSS, W/DRAW FROM AREA & LET FIRE BURN. W/DRAW IMMED IN CASE OF RISING SOUND FROM VENTING SFTY DEVICE/ANY(ING 4) RTECS #:9999999ZZ

Ingred Name:ING 3:DISCOLORATION OF TANK DUE TO FIRE. ISOLATE FOR 1/2 MILE IN ALL DIRECTIONS IF TANK, RAIL CAR/TANK TRUCK IS (ING 5) RTECS #:9999992Z

Ingred Name:ING 4:INVOLVED IN FIRE. EXTING ONLY IF FLOW CAN BE STOPPED; USE FLOODING AMTS OF WATER AS A FOG, SOLID STREAMS (ING 6) RTECS #:9999992Z

Ingred Name:ING 5:MAY BE INEFFECTIVE. KEEP UPWIND. RTECS #:99999992Z

Ingred Name:EFTS OF OVEREXP:MAY CAUSE BURNING SENSATION IN MOUTH, THROAT & STOM. SYSTEMIC TOX, INCL CNS DEPRESS, HEPATOTOX & (ING 8) RTECS #:9999999ZZ

Ingred Name:ING 7:NEPHROTOXICITY, MAY OCCUR AS DETAILED IN ACUTE INHAL. INGEST OF 5 ML MAY BE LETHAL TO MAN. CHRONIC:INHAL: (ING 9) RTECS #:9999999ZZ

Ingred Name:ING

8:EXPOS TO 10-37 PPM HAS CAUSED NAUS, VOMIT, DIZZ & ADVERSE NERV SYS & LIVER EFTS. RPTD/PRLNG EXPOS MAY ALSO(ING 10) RTECS #:9999999ZZ

Ingred Name:ING 9:RSLT IN IRRIT OF MUC MEMBS, ACUTE BRONCH INFLAMM, LOSS OF APPETITE, WT LOSS, ANEMIA, CONSTIP, INSOM, (ING 11) RTECS #:9999999ZZ

Ingred Name:ING 10:EPIGASTRIC DISTRESS, NYSTAGMUS, LIVER & KIDNEY DMG, ELEVATED UREBILINOGEN & CARD PAIN. NEUROLOGIC EFTS (ING 12) RTECS #:9999999ZZ

Ingred Name: ING 11: MAY OCCUR. DEATH MAY RSLT FROM RESP

CIRCULATORY,

HEPATIC/RENAL FAILURE. REPRO EFTS HAVE BEEN REPORTED IN (ING 13) RTECS #:9999999ZZ

Ingred Name:ING 12:ANIMALS. SKIN:RPTD/PRLNG CONT W/LIQ CAN PRDCE DRY, SCALY, FISSURED DERM DUE TO DEFAT ACTION. SYSTEMIC (ING 14) RTECS #:9999999ZZ

Ingred Name:ING 13:EFTS MAY ENSUE. ADMIN TO MICE BY SKIN APPLICATION RESULTED IN STATISTICALLY SIGNIFICANT INCR IN INCIDENCE(ING 15) RTECS #:9999999ZZ

Ingred Name:ING 14:OF NEOPLASTIC TUMORS OF RESP TRACT & SKIN. EYES:RPTD/PRLNG CONT MA

Y CAUSE CONJ. INGEST:MAY CAUSE SYSTEMIC(ING 16) RTECS #:99999992Z

Ingred Name:ING 15:EFTS. IN MICE, IT PRDCD BENIGN & MALIGNANT TUMORS OF LUNG & MALIGNANT LYMPHOMAS IN ANIMALS OF BOTH SEXES;(ING 17) RTECS #:9999999ZZ

Ingred Name:ING 16:HEPATOCELLULAR CARCINOMAS IN MALES & MAMMARY & UTERINE ADENOCARCINOMAS IN FEMALES. IN RATS, IT PRDCD (ING 18) RTECS #:9999999ZZ

Ingred Name:ING 17:CARCINOMAS OF FORESTOMACH IN MALES, BENIGN & MALIGNANT MAMMARY TUMORS IN FEMALES & HEMANGIOSARCOMA S IN (ING 19) RTECS #:9999999ZZ

Ingred Name:ING 18:ANIMALS OF BOTH SEXES. RTECS #:99999992Z

Ingred Name:FIRST AID PROC:MINS). GET MED ATTN. INGEST:IF VOMIT OCCURS, KEEP HEAD LOWER THAN HIPS TO HELP PVNT ASPIR. TREAT (ING 21) RTECS #:9999999ZZ

Ingred Name:ING 20:SYMPTOMATICALLY & SUPPORTIVELY. GET MEDICAL ATTENTION. RTECS #:9999999ZZ

Ingred Name:OTHER PREC:RUPTURE & TRAVEL A CONSIDERABLE DISTANCE IN HEAT OF FIRE. RTECS #:9999999ZZ

Ingred Name: RESP PROT: SUPPLIED AIR RESP W/FULL FA

CEPIECE OPERATED IN PRESS-DEMAND/OTHER POS-PRESS MODE IN COMBINATION W/ (ING 24) RTECS #:99999992Z

Ingred Name:ING 23:AUXILIARY SCBA OPERATED IN PRESS-DEMAND/OTHER POS-PRESS MODE. ESCAPE-ANY AIR-PURIFYING, FULL-FACEPIECE (ING 25) RTECS #:9999999ZZ

Ingred Name:ING 24:RESP (GAS MASK) W/CHIN-STYLE, FRONT- OR BACK-MOUNTED ORGANIC VAPOR CANISTER; ANY APPROP ESCAPE-TYPE, SCBA. RTECS #:9999999ZZ

LD50 LC50 Mixture:LD50:

(ORAL,RAT) 670 MG/KG.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE:INHAL:MAY CAUSE IRRIT OF UPPER RESP TRACT, HDCH, NAUS & VOMIT, DIARR & INTEST CRAMPS. CNS EFTS INCL LT HEAD, WEAK, ANXIETY, DROW, DELIRIUM, COLLAPSE & COMA MAY APPEAR W/IN SEVERAL HRS AFTER EXPO S. THERE MAY BE QUIESCENT PERIOD & THEN, IF INDIVIDUAL SURVIVES, OLIGURIA, JAUN & ANEMIA MAY RSLT. (EFTS OF OV

EREXP)

Explanation of Carcinogenicity:ETHYLENE DICHLORIDE:IARC MONO, SUPP, VOL 7, PG 56, 1987:GRP 2B. NTP 7TH ANNUAL RPT ON CARCINS, 1994:ANTIC TO BE (SUPDAT)

Effects of Overexposure:HLTH HAZ:DEATH MAY OCCUR FROM RESP/CARD ARREST. SKIN:LIQ MAY CAUSE IRRIT. PRLNG CONT MAY RSLT IN SEV IRRIT, MOD EDEMA & NECROSIS. MAY BE ABSORBED & CAUSE SYSTEMIC TOX. EYE:HIGH VAP CONCS/LIQ MAY CAUSE IMMED DISCOMFORT, LACRIM, HYPEREMIA OFCONJ & CORNEAL INJURY, WHICH MAY RETURN TO NORMAL W/I N DAY/TWO. INGEST:

(ING 7)

Medical Cond Aggravated by Exposure:PERSONS W/BRONCHITIS, ASTHMA, KIDNEY, LIVER, BLOOD, HEART OR CIRCULATORY DISORDERS ARE AT INCREASED RISK FROM EXPOSURE.

First Aid:INHAL:REMOVE TO FRESH AIR IMMED. PERFORM ARTF RESP IF NEC. KEEP PERS WARM & AT REST. TREAT SYMPTOMATICALLY & SUPPORTIVELY. GET MED ATTN. SKIN:REMOVE CONTAM CLTHG & SHOES IMMED. WASH W/SOAP & WATER UNT IL NO EVID OF CHEM REMAINS (AT LST 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 REMAINS (AT LST 15-20 (ING 20)

Flash Point Method:CC Flash Point:56.0F.13.3C Lower Limits: 6.2% Upper Limits:16% Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM. FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR FOAM. Fire Fighting Procedures: USE NIOSH APPRVD SCBA & FULL PROT EQUIP . MOVE CNTNR FROM FIRE AREA IF W/OUT RISK. APPLY COOLING WATER TO SIDES OF CNTNRS EXPOS TO FLAMES UNTIL (SUPDAT) Unusual Fire/Explosion Hazard: DANGEROUS FIRE HAZ WHEN EXPOS TO HEAT, FLAME/OXIDIZERS. VAP-AIR MIXTS ARE EXPLO ABOVE FLASH POINT. VAPS MAY TRAVEL CONSIDERABLE DIST TO SOURCE OF IGNIT (SUPDAT) Spill Release Procedures: SHUT OFF IGNIT SOURCES; N O FLARES, SMOKING/FLAMES IN HAZ AREA. STOP LEAK IF W/OUT RISK. WATER SPRAY MAY REDUCE VAP; BUT MAY NOT PVNT IGNIT IN CLSD SPACES. SM SPILLS: TAKE UP W/SAND OR OTHER NONCOMBUST ABSORB MATL & PLACE INTO CNTNRS FOR LATER (SUPDAT) Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER. Handling and Storage Precautions: OBSERVE ALL FED, STATE & LOC REGS WHEN STORING THIS SUBSTANCE. STORE AWAY FROM INCOMPAT SUBSTANCES. PROT AGAINST PHYSICAL DMG. FLAMM LIQ, POISON. Other Precautions: OUTSIDE/DETACHED STOR IS PREF. INSIDE STORE SHOULD BE IN STD FLAMM LIQS STOR ROOM/CABINET. SEPARATE FROM OXIDIZING MATLS. VAPS MAY BE EXPLO & POIS; DO NOT ALLOW UNNEC PERS IN AREA. DO NOT OVERHEAT CNT NRS; CNTNRS MAY VIOLENTLY (ING 22)

Respiratory Protection: SPECIFIC RESP SELECTED MUST BE BASED ON CONTAM LEVELS FOUND IN WORK PLACE, MUST NOT EX

CEED WORKING LIMS OF RESP & BE NIOSH APPRVD: AT ANY DETECTABLE CONC-ANY SCBA W/FULL-FACEPIECE OPERATED IN PRESS-DE MAND/OTHER POS-PRESS MODE; ANY (ING 23) Ventilation: PROVIDE LOCAL EXHAUST OR PROCESS ENCLOSURE VENTILATION TO MEET PELS. VENTILATION EQUIPMENT MUST BE EXPLOSION-PROOF. Protective Gloves: IMPERVIOUS GLOVES . Eye Protection: ANSI APPRVD CHEM WORKERS GOGGS & (SUPDAT) Other Protective Equipment: ANSI APPRVD EYE WASH FOUNTAIN & DELUGE SHOWER . APPROP PROT (IMPERVIOUS) CLTHG & EQUIP TO PVNT CONT W/SUBSTANCE. Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER. Supplemental Safety and Health EXPLO HAZ:& FLASH BACK. EXPLAN OF CARCIN:CARCIN. ANIMAL:GI, SKIN, LUNGS. SPILL PROC: DISP. LGR SPILLS: DIKE FAR AHEAD OF SPILL FOR LATER DISP. ISOLATE HAZ AREA & DENY ENTRY. STAY UPWIND, RQ:5000 LBS. FO R MORE INFO CONT NEHC. EYE PROT: FULL LENGTH FACESHIELD . FIRE FIGHT PROC:WELL AFTER FIRE IS OUT. STAY(ING 2) =================== Physical/Chemical Properties _____ Boiling Pt:B.P. Text:183F,84C Melt/Freeze Pt:M.P/F.P Text:-32F,-36C Vapor Pres:87 @ 25C Vapor Density:3.35 Spec Gravity:1.256 Evaporation Rate & amp; Reference:1.3 (CCL*4=1) Solubility in Water:0.8% Appearance and Odor: CLEAR, COLORLESS, OILY LIQUID W/PLEASANT CHLOROFORM-LIKE ODOR & SWEET TASTE. Stability Indicator/Materials to Avoid:YES ALUMINUM, LIQ AMMONIA, STRONG CAUSTICS, METALS, STRONG OXIDIZERS. F OR COMPLETE LIST OF MATLS TO AVOID CONT NEHC . Stability Condition to Avoid: AVOID CONTACT W/HEAT, SPARKS, FLAMES OR OTHER SOURCES OF IGNITION. Hazardous Decomposition Products: THERMAL DECOMP PRODUCTS MAY INCL HIGHLY TOXIC FUMES OF PHOSGENE. TOXIC & CORR FUMES OF CHLORIDES & OXIDES OF CARBON.

Waste Disposal Methods:OBSERVE ALL FED, STATE & LOC REGS WHEN DISP OF THIS SUBSTANCE. MATLS WHICH CNTN 1,2-DICHLOROET HANE AT/ABOVE THE

TCLP REGULATORY LEVEL MEET THE EPA TOX CHARACT & MUST BE DISP OF I/A/W 40 CFR PART 262. EPA HAZ WASTE NUMBER:D028.

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