

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

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

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

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

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

Inged 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

Inged 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 #:9999999ZZ

Inged 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 #:9999999ZZ

Inged Name:ING 5:MAY BE INEFFECTIVE. KEEP UPWIND.
RTECS #:9999999ZZ

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

Inged 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

Inged 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

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

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

Inged 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 #:9999999ZZ

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 #:9999999ZZ

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 #:9999999ZZ

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

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

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

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 Measures =====

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)

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

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)

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

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

SPIILLS:TAKE UP W/SAND OR OTHER NONCOMBUST ABSORB MATL & PLACE INTO
CNTNRS FOR LATER (SUPDAT)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

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)

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

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)

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===== Physical/Chemical Properties
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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 & 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.

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

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.

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

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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