

FISHER SCIENTIFIC CHEMICAL DIVISION -- 1,2-DICHLOROETHANE -- 6810-00-838-5932  
===== Product Identification =====

Product ID:1,2-DICHLOROETHANE  
MSDS Date:04/22/1989  
FSC:6810  
NIIN:00-838-5932  
MSDS Number: BHCNV  
=== Responsible Party ===  
Company Name:FISHER SCIENTIFIC CHEMICAL DIVISION  
Address:1 REAGENT LANE  
City:FAIR LAWN  
State:NJ  
ZIP:07410  
Info Phone Num:201-796-7100  
Emergency Phone Num:201-796-752  
3  
Preparer's Name:GASTON L. PILLORI  
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:ETHYLENE DICHLORIDE (SARA III)  
CAS:107-06-2  
RTECS #:KI0525000  
Fraction by Wt: 100%  
OSHA PEL:50 PPM/C,100PPM  
ACGIH TLV:10 PPM; 9293  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

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===== **Hazards Identification**=====

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 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: INHALE- IRRITATION OF UPPER RESPIRATORY TRACT, HEADACE, NAUSEA, VOMITING. SKIN- IRRITATION, CYANOSIS, HYPOTENSION, DIZZINESS. EYE- DISCOMFORT, CORNEAL INJURY. INGEST- HYPOTENSION, CYANOSIS, NAU SEA. CHRONIC: INHALE-  
N

EUROLOGICAL CHANGES, LIVER AND KIDNEY DAMAGE. SKIN- SEVERE IRRITATION. EYE- CONJUNCTIVITIS.

Explanation of Carcinogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS LISTED BY OSHA AS A CARCINOGEN.

Effects of Overexposure:SEE HEALTH HAZARDS AND MSDS. ETHYLENE DICHLORIDE IS AN EYE, SKIN, AND MUCOUS MEMBRANE IRRITANT AND A CENTRAL NERVOUS SYSTEM DEPRESSANT. POISONING MAY AFFECT THE LIVER, KIDNEYS, HEART ,AND ADRENAL GLAN DS. THE USE OF ALCOHOLIC BEVERAGES MAY ENHANCE THE TOXI

C EFFECTS.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF SKIN AND RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

===== **First Aid Measures**=====

First Aid:INHALATION: REMOVE SUBJECT TO FRESH AIR. IF BREATHING STOPPED, GIVE ARTIFICIAL RESPIRATION. EYE: FLUSH WITH PLENTY OF WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WA TER. REMOVE CONTAMINATED CLOTHING. INGESTION: GET IMME

DIATE MEDICAL ATTENTION. IF MEDICAL ATTENTION IS NOT AVAILABLE, INDUCE VOMITING BY TOUCHING FINGER TO BACK OF THROAT.

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

Flash Point Method:CC

Flash Point:56.0F,13.3C

Autoignition Temp:Autoignition Temp Text:775F

Lower Limits:6.2

Upper Limits:16.0

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, HALON, WATER SPRAY OR STANDARD FOAM

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIV

EQUIPMENT WHEN FIGHTING CHEMICAL FIRE USE WATER  
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.  
Unusual Fire/Explosion Hazard:CONTAINERS MAY BURST WHEN EXPOSED TO HEAT  
OF FIRE.

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

Spill Release Procedures:SOAK UP SMALL SPILLS WITH SAND OR INERT  
ABSORBANT AND PLACE IN CONTAINERS FOR LATER DISPOSAL. DIKE TO  
RETAIN LARGE SPILLS. VACUUM UP FREE LIQUID. REMOVE RESIDUE WITH  
INERT ABSORBANT. PLACE IN DISPOSAL CON  
TAINER. FLUSH AREA WITH  
WATER.  
Neutralizing Agent:NONE APPLICABLE FOR THIS MATERIAL

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED  
AREA. PROTECT FROM PHYSICAL DAMAGE, HEAT AND IGNITION SOURCES. KEEP  
CONTAINERS CLOSED.  
Other Precautions:VAPOR EXPLOSION HAZARD INDOORS, OUTDOORS OR IN  
SEWERS. RUN-OFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

===== Exposure Controls/Personal Prot  
ection =====

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION  
EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS  
PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND  
NIOSH-RESPIRATOR SELECTION.  
Ventilation:MECHANICAL (GENERAL) VENTILATION IS REQUIRED. LOCAL EXHAUST  
MAY BE REQUIRED IF WORK AREA IS NOT VENTED.  
Protective Gloves:RUBBER  
Eye Protection:CHEMICAL SAFETY GOGGLES  
Other Protective Equipment:SAFETY SHOWER AND EYE BATH. OTHER EQUIP  
MENT  
AS REQUIRED TO MINIMIZE EXPOSURE FROM PROLONGED OR REPEATED  
CONTACT.  
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE  
EATING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.  
Supplemental Safety and Health  
CONTACT LENSES SHOULD NOT BE WORN WHEN HANDLING THIS SUBSTANCE.

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

HCC:F2  
Boiling Pt:=83.9C, 183.F  
Melt/Freeze Pt:=-35.6C, -32.F  
Vapor Pres:87  
Vapor Density:3.35  
Spec Gravity:1.256  
Evaporation Rate

& Reference:1.3 (CARBON TETRACHLO=1)

Solubility in Water:0.8%

Appearance and Odor:CLEAR, COLORLESS, OILY LIQUID W/ PLEASANT  
CLOROFORM-LIKE ODOR AND SWEET TASTE.

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

Stability Indicator/Materials to Avoid:YES

ALUMINUM, AMMONIA, CAUSTICS, DIMETHYLAMINOPROPYAMINE, DINITROGEN  
TETROXIDE, NITRIC ACID, OXIDIZERS, POTASSIUM.

Stability Condition to Avoid:ABNORMAL TEMPERATURES AND PRESSURES.

Hazardous Decomposition Products:HIGH  
LY TOXIC FUMES OF PHOSGENE, TOXIC

AND CORROSIVE FUMES OF CHLORIDES, AND OXIDES OF CARBON.

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

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

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