

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

=====

=====
===== 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

E 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.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expre

ssly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.