

FISHER SCIENTIFIC, CHEMICAL DIV. -- METHYLENE CHLORIDE -- 6810-01-315-5337

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

Product ID:METHYLENE CHLORIDE

MSDS Date:04/27/1992

FSC:6810

NIIN:01-315-5337

MSDS Number: BPZMQ

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC, CHEMICAL DIV.

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:201-79

6-7100/800-424-9300(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

Company Name:JOHN J. MCMULLEN ASSOC.

Address:11771 ROCK LANDING DRIVE

Box:City:NEWPORT NEWS

State:VA

ZIP:23607

Country:US

Phone:804-873-6500

CAGE:3P768

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

Ingred Name:METHYLENE CHLORIDE (SARA III)

C

AS:75-09-2
RTECS #:PA8050000
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:500 PPM/C,1000; Z2
ACGIH TLV:50 PPM, A2; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:LD50 ORAL RAT = 1600 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE: EYE, SKIN AND RESPIRATORY TRACT IRRITATION, POSSIBLE CORNEAL INJURY, NARCOSIS, CENTRAL NERVOUS SYSTEM EFFECTS, UNCONSCIOUSNESS, KIDNEY AND LUNG DAMAGE, EVEN DEATH. CHRONIC: DERMATITIS, DELAYED LIVER, KIDNEY AND CENTRAL NERVOUS SYSTEM DAMAGE, AGGRAVATION OF ARTERY DISEASE.
Explanation of Carcinogenicity:SUSPECTED CARCINOGEN BY NTP AND IARC.
Effects of Overexposure:EYE PAIN, SKIN DRYNESS, HEADACHE, DIZZINESS, DROWSINESS, NAUSEA, TINGLING OR NUMBNESS OF THE EXTREMITIES, SENSES OF FULLNESS IN THE HEAD, SENSE OF WARMTH, STUPOR OR DULLNESS, LETHARGY AND DRUNKENESS. VERY HIGH CONCENTRATIONS MAY LEAD TO UNCONSCIOUSNESS OR EVEN DEATH IN CONFINED OR POORLY VENTILATED AREAS.
Medical Cond Aggravated by Exposure:PERSONS WITH SKIN, LIVER, KIDNEY, ANGINA, HEART DISEASE, LUNG DISEASE, CORONARY ARTERY DISEASE, ANEMIA OR THOSE WHO ARE HEAVY DRINKERS OR SMOKERS SHOULD NOT BE EXPOSED TO THIS PRODUCT.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE CPR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. EYE: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER PROMPTLY. INGESTION: DO NOT INDUCE VOMITING. GIVE MILK OR WATER TO DRINK ONLY IF CONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point:NONE
Autoignition Temp

:Autoignition Temp Text:1033F

Lower Limits:13

Upper Limits:23

Extinguishing Media:SMALL FIRES: DRY CHEMICAL, CARBON DIOXIDE. LARGE FIRES: WATER SPRAY, FOG, OR REGULAR FOAM.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS. KEEP UPWIND. FIGHT FIRE FROM A DISTANCE.

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

Spill Release Procedures:WEAR RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE OR SCBA AS APPROPRIATE. ELIMINATE IGNITION SOURCES. ABSORB IN INERT MATERIAL AND PLACE IN APPROPRIATE DISPOSAL CONTAINER AND COVER. FLUSH AREA WITH LARGE AMOUNTS OF WATER.

Neutralizing Agent:NONE.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED

D

LOCATION, AWAY FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE. KEEP CONTAINERS CLOSED WHEN NOT IN USE.

Other Precautions:METHYLENE CHLORIDE VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS. THIS MATERIAL OR ITS VAPORS WHEN IN CONTACT WITH FLAMES, HOT GLOWING SURFACES OR ELECTRIC ARCS CAN DECOMPOSE TO FORM HYDROGEN CHLORIDE GAS AND TRACES OF PHOSGENE.

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

Respiratory Protection:WEAR SCBA OR SUPPLIED AIR RESPIRATOR IF USE

CONDITIONS GENERATE VAPORS OR MISTS. CANNISTER RESPIRATORS MAY BE INEFFECTIVE DUE TO POOR WARNING PROPERTIES OF METHYLENE CHLORIDE.

Ventilation:LOCAL EXHAUST RECOMMENDED TO CONTROL VAPORS BELOW 50% OF TLV.

Protective Gloves:VITON GLOVES RECOMMENDED.

Eye Protection:CHEMICAL SAFETY GOGGLES & FACE SHIELD.

Other Protective Equipment:APRON AND WORK CLOTHING TO MINIMIZE EXPOSURE. EYE WASH STATION & SAFETY SHOWER RECOMMENDED.

Work Hygienic Practices:WASH THOROUGH

LY AFTER USE AND BEFORE EATING,
SMOKING OR USING TOILET FACILITIES. DO NOT BREATH VAPORS OR MIST.
Supplemental Safety and Health
TARGET ORGANS ARE SKIN, CNS, CVS, AND EYES. NOTE TO PHYSICIAN: IF
INGESTED, DANGER OF CHEMICAL PNEUMONIA MUST BE WEIHGED AGAINST
TOXICITY WHEN CONSIDERING EMTYING STOMACH. IF LAVAGE IS PERFORMED,
ENDO TRACHEAL AND/OR ESOPHAGOSCOPIC CONTROL IS SUGGESTED. DO NOT
GIVE EPINEPHRINE OR SIMILAR DRUGS IF AT ALL POSSIBLE.

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

HCC:T4
Boiling Pt:B.P. Text:104F,40C
Melt/Freeze Pt:M.P/F.P Text:-139F FZ PT
Vapor Pres:400 @ 75F
Vapor Density:2.9
Spec Gravity:1.32
Viscosity:0.44 CPS @68F
Evaporation Rate & Reference:27.5 (BUTYL ACETATE = 1)
Solubility in Water:1.6%
Appearance and Odor:CLEAR, COLORLESS LIQUID. MILD, CHLOROFORM-LIKE
ODOR.
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
AL
KALIES, OXIDIZING MATERIALS, WATER, ALUMINUM, ALKALI METALS, SODIUM,
POTASSIUM AND MAGNESIUM.
Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES.
Hazardous Decomposition Products:WHEN INVOLVED IN FIRE, METHYLENE
CHLORIDE EMITS HIGHLY TOXIC AND IRRITATING HYDROGEN CHLORIDE AND
PHOSGENE FUMES.

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

Waste Disposal Methods:CONTAMINATED SAWDUST, VERMICULITE OR POROUS
SURFACE MUST BE DISPOSED OF IN A PERMITTED HAZARDOUS

WASTE

MANAGEMENT FACILITY. RECOVERED LIQUIDS MAY BE REPROCESSED OR INCINERATED OR MUST BE TREATED IN A PERMITTED HAZARDOUS WASTE MANAGEMENT FACILITY.

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, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizin

g this

document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.