

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, PO  
SSIBLE 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, STUP  
OR 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 FRE  
SH 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 AT TENTION. 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

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.

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