

FISHER SCIENTIFIC, CHEMICAL DIV. -- METHYLENE CHLORIDE -- 6810-00-397-3720

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

Product ID:METHYLENE CHLORIDE

MSDS Date:09/26/1990

FSC:6810

NIIN:00-397-3720

MSDS Number: BDXNP

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC, CHEMICAL DIV.

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410-2803

Country:US

Info Phone Num:201-796-7100 OR 201-796-7523

Emerg

ency Phone Num:201-796-7100/800-424-9300(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

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

Ingred Name:METHYLENE CHLORIDE (SARA III)

CAS:75-09-2

RTECS #:PA8050000

Fraction by Wt: 100.0%

OSHA PEL:500 PPM/C,1000; Z2

ACGIH TLV:50 PPM, A2; 9192

EPA Rpt Qty:1000 LBS

DOT

Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:ORAL LD50 (RAT) = 167 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: MAY CAUSE EYE & SKIN  
IRRITATION. INHALATION MAY CAUSE RESPIRATORY TRACT IRRITATION AND  
NARCOSIS. CENTRAL NERVOUS SYSTEM DEPRESSANT. LOSS OF CONSCIOUSNESS  
AND EVEN DEATH CAN OCCUR AT HIGH LEVELS OF EXP  
OSURE. CHRONIC:  
PROLONGED OR REPEATED CONTACT WITH LIQUID ON THE SKIN CAN CAUSE  
IRRITATION AND DERMATITIS.  
Explanation of Carcinogenicity:LISTED AS A SUSPECTED CARCINOGEN BY  
IARC. (2B)  
Effects of Overexposure: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 POOR  
LY VENTILATED AREAS.  
Medical Cond Aggravated by Exposure:METHYLENE CHLORIDE IS METABOLIZED  
BY THE BODY TO CARBON MONOXIDE. THIS CAN BE SUFFICIENT TO PRODUCE A  
SUBSTANTIAL STRESS ON THE CARDIOVASCULAR SYSTEM BY ELEVATED LEVELS  
OF CARBONYHEMOGLOBIN.

===== 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 LARG  
E 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  
Lower Limits:14.0  
Upper Limits:22.0  
Extinguishing Media:USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER  
FOG.  
Fire Fighting Procedures:FIRE FIGHTER

S SHOULD USE NIOSH APPROVED SCBA &  
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER  
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE  
PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

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

Spill Release Procedures:SMALL SPILL: WIPE UP WITH RAGS OR TOWELS.  
LARGE SPILLS: EVACUATE AREA. WEAR NIOSH APPROVED RESPIRATOR.  
VENTILATE AREA. DIKE T  
O RETAIN FLUID. PUMP UP FREE LIQUID. RESIDUE  
WILL EVAPORATE QUICKLY. DO NOT FLUSH TO SEWER OR WATERWAY.  
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 HYDRO GEN CHLORIDE GAS AND TRACES OF PHOSGENE.

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

Respiratory Protection:IN HIGH VAPOR AREA, USE NIOSH/MSHA APPROVED  
RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE. USE SELF-CONTAINED  
BREATHING APPARATUS IF VAPOR LEVELS EXCEED 1000 PPM. LONG-TERM  
OVEREXPOSURE MAY CAUSE LIVER/KIDN EY DAMAGE.  
Ventilation:LOCAL EXHAUS  
T RECOMMENDED TO CONTROL VAPORS BELOW 50% OF  
TLV.  
Protective Gloves:NEOPRENE, PVA 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 THOROUGHLY 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.

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

HCC:T4

Boiling Pt:B.P. Text:104F,40C

Melt/Freeze Pt:M.P/F.P Text:-139F,-95C

Vapor Pres:400 MMHG

Vapor Density:2.9

Spec Gravity:1.3266

Evaporation Rate & Reference:27.5(N-BUTYL ACETATE = 1)

Solubility in Water:SLIGHT

Appearance and Odor:CLEAR,COLORLESS LIQUIDWITH A MILD CHLOROFORM ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:Y

ES

ALKALI METALS, FINELY POWDERED ALUMINUM & MAGNESIUM

Stability Condition to Avoid:HIGH TEMPERATURES

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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