

COLUMBUS CHEMICAL INDUSTRIES, INC. -- METHYLENE CHLORIDE -- 6810-00-244-0290

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Product Identification  
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Product ID:METHYLENE CHLORIDE

MSDS Date:03/05/1990

FSC:6810

NIIN:00-244-0290

MSDS Number: BHXXT

=== Responsible Party ===

Company Name:COLUMBUS CHEMICAL INDUSTRIES, INC.

Address:N. 4335 TEMKIN RD.

City:COLUMBUS

State:WI

ZIP:53925

Country:US

Info Phone Num:414-623-2140

Emergency Phone Nu

m:414-623-2140(800-424-9300CHREMTREC)

CAGE:5Y144

=== Contractor Identification ===

Company Name:COLUMBUS CHEMICAL INDUSTRIES INC

Address:N 4335 TEMKIN RD

Box:8

City:COLUMBUS

State:WI

ZIP:53925-0008

Country:US

Phone:920-623-2140

CAGE:5Y144

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Composition/Information on Ingredients  
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Ingred Name:METHYLENE CHLORIDE (SARA III)

CAS:75-09-2

RTECS #:PA8050000

Fraction by Wt: 99.5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:500 PPM/C,1000; Z2

ACGIH TLV:50 PPM, A2; 9192

EPA Rpt Q

ty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:PROPYLENE OXIDE (SARA III)  
CAS:75-56-9  
RTECS #:TZ2975000  
Fraction by Wt: 0.5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:100 PPM  
ACGIH TLV:20 PPM; 9293  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

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

LD50 LC50 Mixture:ORAL LD50 (RAT) = 1500 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 EXPOSURE. 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 NU

MBNESS 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: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.

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==== 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 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.

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=== Fire Fighting Measures =====

Flash Point Method:TOC

Flash Point:NONE

Lower Limits:14

Upper Limits:22

Extinguishing Media:USE WATER FOG.

Fire Fighting Procedures:FIRE FIGHTERS 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:FORMS FLAMMABLE VAPOR-AIR MIXTURES. LOWER TEMPERATURES INCREASE THE DIFFICULTY OF GETTING IT TO IGNITE.

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===== 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 TO 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 LOC

ATION, 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 EXHAUST 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.

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

HCC:T4

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

Vapor Pres:355MM@20 C

Vapor Density:2.93

Spec Gravity:1.320

Solubility in Water:2.0G/100G @25 C

Appearance and Odor:COLORLESS LIQUID WITH PENETRATING ETHER-LIKE ODOR.

IRRIT

ATING AT HIGH CONCS.

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

Stability Indicator/Materials to Avoid:YES

AMINES, POSSIBLY SODIUM, POTASSIUM, AND MAGNESIUM.

Stability Condition to Avoid:HYDROLYSIS PRODUCING SMALL AMOUNTS OF  
HYDROCHLORIC ACID POSSIBLE WITH GROSS WATER CONTAMINATION. HIGH  
TEMPS, OPEN FLAMES

Hazardous Decomposition Products:WHEN INVOLVED IN FIRE, METHYLENE  
CHLORIDE EMITS HIGHLY TOXIC AND IRRITATING HYDROGEN CHLORIDE AND  
PHOSGENE FUMES.

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===== 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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