

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

Product ID:METHYLENE CHLORIDE

MSDS Date:11/08/1986

FSC:6810

NIIN:00-122-3963

MSDS Number: BKQYJ

=== Responsible Party ===

Company Name:ICI AMERICAS INC SPECIALTY CHEMICAL DIV

Address:NEW MURPHY AND CONCORD PIKE

City:WILMINGTON

State:DE

ZIP:19897

Country:US

Emergency Phone Num:800-327-8633/302-575-3000

CAGE:1N759

=== Contractor Identification ===

Company Name:A AND B CHEMICAL AND EQUIPMENT CO

Address:2931 2ND AVE SUITE 100

Box:City:RICHMOND

State:VA

ZIP:23222

Country:US

Phone:804-329-3197

CAGE:0F8M0

Company Name:ICI AMERICAS INC. (FILM DIVISION)

Address:NEW MURPHY ROAD AND CONCORD PIKE

Box:City:WILMINGTON

State:DE

ZIP:19897

Country:US

Phone:302-575-3000

CAGE:1N759

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

Ingred Name:METHYLENE CHLORIDE (SARA III)

CAS:75-09-2

RTECS #:PA8050000

Fraction by Wt: 100%

Other REC L

imits:NONE SPECIFIED  
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) = 1500-5000 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-MAY CAUSE EYE & SKIN  
IRRITATION.MAY CAUSE SKIN CHEMICAL BURNS.INHALATION:MAY CAUSE  
RESPIRATORY TRAC  
T IRRITATION,CNS DEPRESSION,LOSS OF CONSCIOUSNESS &  
EVEN DEATH.INGESTION:SLIGHTLY TOXIC.HIGH DO SE->CNS  
DEPRESSION.CHRONIC-PROLONGED/REPEATED CONTACT WITH LIQUID ON THE  
SKIN CAN CAUSE IRRITATION AND DERMATITIS.  
Explanation of Carcinogenicity:LISTED AS A SUSPECTED CARCINOGEN BY IARC  
(2B) AND NTP (AC).  
Effects of Overexposure:SEE HEALTH HAZARDS SECTION. AT VERY HIGH  
CONCENTRATIONS, METHYLENE CHLORIDE INHALATION CAN INDUCE CARDIAC  
SENSITIZATION TO EPINEPHRINE-LIKE COMPOUNDS  
IN EXPERIMENTAL  
ANIMALS. MAY INDUCE CARBOXYHEMOGLO BINEMIA. THIS MATERIAL IS  
PRACTICALLY NONTOXIC IN TERMS OF ACUTE EXPOSURE. LC50 IN MICE IS  
ABOUT 50 G/M3(15,000 PPM).  
Medical Cond Aggravated by Exposure:NOT GIVEN.

===== 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 WATER FOR 15 MINUTES.GET MEDICAL  
ATTENTI  
ON.SKIN:WASH WITH SOA P & WATER.INGESTION:IF CONSCIOUS,DRINK  
1-2 GLASSES OF WATER & INDUCE VOMITING.GET IMMEDIATE MEDICAL  
ATTENTION.

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

Flash Point:DOES NOT FLASH  
Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE.  
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A  
FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL  
FIRE EXPOSED CONTAINERS WITH WATER SPRAY.  
Unusual Fire/

Explosion Hazard:METHYLENE CHLORIDE VAPORS IN  
CONCENTRATIONS OF ABOUT 12-19% BY VOLUME CAN BE IGNITED BY VERY  
HIGH ENERGY SOURCES (ABOVE 65 JOULES).

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

Spill Release Procedures:VENTILATE AREA.WEAR SKIN & EYE PROTECTION & A  
POSITIVE PRESSURE AIR-SUPPLIED RESPIRATOR DURING CLEAN-UP.CONTAIN  
THE SPILL.PREVENT LIQUID FROM ENTERING SEWERS.SOAK UP LIQUID WITH  
ABSORBENT & SHOVEL INTO WASTE CONTAINER.REMOVE CONTAINER  
FROM WORK  
AREA.  
Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORAGE-STORE IN WELL-VENTILATED AREA  
AWAY FROM HEAT & SUNLIGHT.  
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.

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= Exposure Controls/Personal Protection =====

Respiratory Protection:IN HIGH VAPOR AREA, USE NIOSH/MSHA APPROVED  
RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE. FOR HIGH CONCENTRATIONS  
AND OXYGEN-DEFICIENT ATMOSPHERES, USE POSITIVE PRESSURE  
AIR-SUPPLIED RESPIRATOR.  
Ventilation:LOCAL EXHAUST RECOMMENDED. VENTILATE LOW-LYING AREAS WHERE  
DENSE VAPORS MAY COLLECT.  
Protective Gloves:PVA  
Eye Protection:CHEMICAL TIGHT GOGGLES & FULL FACESHIELD  
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 BREATHE VAPORS OR MIST.  
Supplemental Safety and Health  
NOTE TO PHYSICIAN: METHYLENE CHLORIDE IS METABOLIZED TO CARBON  
MONOXIDE; WHICH THEN REACTS WITH HEMOGLOBIN & REDUCES THE  
OXYGEN-CARRYING CAPACITY OF THE BLOOD. DO NOT ADMINISTER  
ADRENALIN/SYMPATHOMIMETIC DRUGS FOLLOWING OVEREXPOSURE

TO THIS

PRODUCT OR ALLOW VIGOROUS EXERCISE FOR 24 HOURS FOLLOWING TOXIC EXPOSURES.

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

HCC:T4

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

Vapor Pres:349

Vapor Density:2.93

Spec Gravity:1.33

Solubility in Water:1.4 %

Appearance and Odor:CLEAR, COLORLESS LIQUID WITH ETHER-LIKE ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

CORROSIVE TO

AL,TI,FE,STEEL,CU,NI.AVOID CONTACT WITH

OXIDIZERS,ALKALI,ALKALINE EARTH METALS,CAUSTIC SODA,POTASH.

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:DISCARDED PRODUCT IS A HAZARDOUS WASTE,U-080 UNDER RCRA 40 CFR 261.33. SPENT METHYLENE CHLORIDE & SLUDGE FROM

RECOVERY OF THIS MATERIAL ARE HAZARDOUS WASTES,F001 & F002. DISPOSE OF THESE MATERIALS IN A FACILITY, PERMITTED FOR HAZARDOUS WASTE.

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