

DOW CHEMICAL U S A -- METHYLENE CHLORIDE URETHA GRADE -- 6810-00-244-0290

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Product Identification  
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Product ID:METHYLENE CHLORIDE URETHA GRADE

MSDS Date:12/07/1995

FSC:6810

NIIN:00-244-0290

MSDS Number: CGMFR

=== Responsible Party ===

Company Name:DOW CHEMICAL U S A

Address:2030 DOW CENTER BARSTOW BLDG

City:MIDLAND

State:MI

ZIP:48640

Country:US

Info Phone Num:517-636-4410

Emergency Phone

Num:517-636-4400

CAGE:71983

=== Contractor Identification ===

Company Name:DOW CHEMICAL U.S.A.

City:MIDLAND

State:MI

ZIP:48674

Country:US

Phone:517-636-4400

CAGE:71983

Company Name:JEM SALES INC INCHEMCO DIV

Address:430 LAVENDER DR

Box:City:ROME

State:GA

ZIP:30165-2262

Country:US

Phone:706-232-1709

CAGE:0AZD7

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Composition/Information on Ingredients  
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Ingred Name:METHYLENE CHLORIDE (SARA 313) (CERCLA)

CAS:75-09-2

RTECS #:PA8050000

Fraction by Wt: 98.4%

Other REC Li

imits:NONE RECOMMENDED  
OSHA PEL:500 PPM; Z-2  
ACGIH TLV:50 PPM, A2; 9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:PROPYLENE OXIDE (SARA 302/313) (CERCLA)  
CAS:75-56-9  
RTECS #:TZ2975000  
Fraction by Wt: 1.6%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:100 PPM  
ACGIH TLV:20 PPM; 9596  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

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

LD50 LC50 Mixture:ORAL RATS LD50 1500-2500MG/KG.  
Routes of Entry: Inhalation:YES Skin:YES Ingest  
ion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:EYE:MAY CAUSE MODERATE EYE IRRITATION.  
SKIN:PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN IRRITATION.  
INGESTION:SWALLOWING LARGE AMOUNTS MAY CAUSE INJURY. INHALATION:IN  
CONFINED OR POORLY VENTILATED AREAS, VAPORS CAN READILY  
ACCUMULATED AND CAN CAUSE UNCONSCIOUSNESS AND DEATH.  
Explanation of Carcinogenicity:PER MSDS:PER OSHA 29CFR1910.1200 LISTED  
AS POTENTIAL CARCINOGEN BY IARC  
/NTP.  
Effects of Overexposure:EYE-MAY CAUSE PAIN. SKIN-MAY CAUSE BURNS,  
DRYING OR FLAKING OF SKIN. INHALATION-CAN CAUSE DIZZINESS,  
DRUNKENNESS, CARDIAC ARRHYTHMIAS (IRREGULAR HEARTBEATS)  
UNCONSCIOUSNESS AND DEATH.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYE:IRRIGATE W/FLOW WATER IMMEDIATELY FOR 15MINS. SEE  
PHYSICIAN. SKIN:WASH OFF IN FLOW WATER/SHOWER. INGEST:DON'T INDUCE

VOMIT. CALL A PHYSICIAN &/OR TRANSPORT TO EMERGENCY FACILITY IMMEDIATELY. INHALE: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. CALL A PHYSICIAN OR TRANSPORT TO A MEDICAL FACILITY.

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

Flash Point Method: TCC

Flash Point: NONE

Lower Limits: 14

Upper Limits: 22

Extinguishing Media: WATER FOG, FINE SPRAY, CARBON DIOXIDE, CHEMICAL, FOAM.

WATER FOG APPLIED GENTLY MAY BE USED AS BLANKET FOR FIRE EXTINGUISHMENT

Fire Fighting Procedures: KEEP PEOPLE AWAY. ISOLATE AREA/DENY ENTRY. CONTAIN FIRE RUN-OFF IF POSSIBLE. WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS & PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard: CONTAINER MAY VENT &/OR RUPTURE DUE TO FIRE. VAPORS ARE HEAVIER THAN AIR & MAY TRAVEL A LONG DISTANCE & ACCUMULATE IN LOW LYING AREAS.

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

Spill Release Procedures: FOR LARGE SPILLS: CONTAIN LIQUID; TRANSFER TO PROPERLY LABELED CLOSED METAL CONTAINER. FOR SMALL SPILLS: MOP OR SOAK UP IMMEDIATELY. PLACE IN PROPERLY LABELED METAL CONTAINERS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions: KEEP CONTAINERS IN TIGHTLY CLOSED CONTAINERS WHEN NOT IN USE. STORE IN A DRY PLACE.

Other Precautions: DON'T

STORE IN AL, ZN, AL ALLOYS, PLASTICS. PRODUCT DENSER THAN WATER. CONTAIN LIQ TO PREVENT CONTAMINATION OF SOIL, SURFACE WATER, GROUND WATER. SARA TITLE III SEC 313 CHEMS.

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

Respiratory Protection: MAINTAIN ATM LEVELS BELOW EXPOSURE GUIDELINE. WHEN RESPIRATORY PROTECTION REQUIRED USE APPROVED AIR-PURIFYING/POSITIVE-PRESSURE SUPPLIED- AIR RESPIRATOR DEPENDING ON POTENTIAL AIRBORNE CONCENTRATION. EMERGENCY/EXPOSURE GUIDELINE EXCEEDED + PRESSURE SUPPLIED SCBA/AIRLINE W/A

UX SCBSUPPLIED.

Ventilation:PROVIDE GEN/LOC EXHAUST VNETILATION TO CONTROL AIRBORNE LEVELS BEL EXPOSURE GUIDELINES. LETHAL CONC MAY EXIST IN AREAS.

Protective Gloves:SPECIFIC ITEM DEPEND ON OPERATION.

Eye Protection:SAFETY GLASSES,FULL-FACE RESPIRATOR.

Other Protective Equipment:USE PPE IMPERVIOUS TO MATERIAL. SELECTION DEPEND ON OPERATION.

Work Hygienic Practices:DON'T EAT/DRINK/SMOKE IN WORK AREA. REMOVE CONTAMINATION CLOTHING IMMEDIATELY ;LAUNDER CLOTH BEFORE REUSE.

Supplemental S  
afety and Health

THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

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

HCC:T4

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

Melt/Freeze Pt:M.P/F.P Text:NP

Decomp Temp:Decomp Text:NP

Vapor Pres:355MM

Vapor Density:2.93

Spec Gravity:1.320

pH:NP

Evaporation Rate & Reference:NP

Solubility in Water:2G/100G @25C.

Appearance and Odor:COLORLESS LIQUID, IRRITATING ODOR.

Percent Volatile

s by Volume:NP

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

METALS (AL, MG, K, NA, ZN POWEDRS). AMINES, STRONG BASES,  
STRONGOXIDIZERS, PROLONG CONTACT W/OR STORAGE IN AL/AL ALLOYS.

Stability Condition to Avoid:AVOID DIRECT SUNLIGHT/ULTRAVIOLET SOURCES,  
OPEN FLAMES, WELD ARC, HIGH TEMP SOURCES. HIGH ENERGY SOURCES  
DEGRADE MATERLS

Hazardous Decomposition Products:SMOKE CONTAINS ORIGINAL MATERIAL,

UNIDENTIFIED TOXIC &/OR IRRIT COMPD.S.HYDROGEN CHLORIDE.TRACE AMTS  
OF PHOSGENE CHLORINE

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

Waste Disposal Methods:DON'T DUMPT INTO SEWERS/GROUND/BODY OF  
H2O.ICW/ALL FED/STATE/PROVIN/LOC LAWS/REGS.WASTE  
CHARACTER/COMPLINACE W/APPLICA LAWS WASTE GENERATOR  
RESPONSIBILITY.UNUSED/UNCONTAM PROD:SEND TO LIC,PERMITT RECY  
CLER,RECLAIMER,INCINER,OTHER THERM DESTRUCTION DEV

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