

DOW CHEMICAL U S A GOVERNMENT MARKETING -- CHLOROTHENE (R) XL SOLVENT --
6810-01-208-9266

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

Product ID:CHLOROTHENE (R) XL SOLVENT

MSDS Date:01/13/1992

FSC:6810

NIIN:01-208-9266

MSDS Number: CCVTG

=== Responsible Party ===

Company Name:DOW CHEMICAL U S A GOVERNMENT MARKETING

Address:2020 DOW CENTER

City:MIDLAND

State:MI

ZIP:48640-6030

Country:US

Info Phone Num:517-

636-1000

Emergency Phone Num:517-636-4400

CAGE:71981

=== Contractor Identification ===

Company Name:DOW CHEMICAL CO

Address:100 LARKIN CENTER

Box:City:MIDLAND

State:MI

ZIP:48674

Country:US

Phone:800-258-2436

CAGE:96717

Company Name:DOW CHEMICAL U S A

Address:BARSTOW BLDG

City:MIDLAND

State:MI

ZIP:48640

Country:US

Phone:517-636-4400

CAGE:71981

Company Name:METALCRAFT INC

Address:149 4TH ST SW

Box:UNKNOW

City:MASON CITY

State:IA

ZIP:50402-1468

Country:US

Phone:800-437-5283

CAGE:22528

=====

= Composition/Information on Ingredients =====

Ingred Name:METHYL CHLOROFORM (1,1,1-TRICHLOROETHANE) (SARA 313)
(CERCLA)

CAS:71-55-6

RTECS #:KJ2975000

Fraction by Wt: 95%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:350 PPM

ACGIH TLV:350 PPM/450STEL;9596

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ozone Depleting Chemical:1

Ingred Name:1,3-DIOXOLANE

CAS:646-06-0

RTECS #:JH6760000

Fraction by Wt: 2.85%

Other REC Limits:NONE RECOMMENDED

Ingred Name:1,2-BUTYLENE OXIDE (SARA 313) (CERCLA
)

CAS:106-88-7

RTECS #:EK3675000

Fraction by Wt: 0.47%

Other REC Limits:NONE RECOMMENDED

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:NITROMETHANE

CAS:75-52-5

RTECS #:PA9800000

Fraction by Wt: 0.43%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:100 PPM

ACGIH TLV:20 PPM; 9596

Ingred Name:SEC-BUTYL ALCOHOL (SARA 313)

CAS:78-92-2

RTECS #:EO1750000

Fraction by Wt: 1.22%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:150 PPM

ACGIH TLV:100 PPM; 9596

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

=====

LD50 LC50 Mixture:ORAL LD50 (RAT) IS >2000 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:EYE CONTACT MAY CAUSE IRRITATION.

PROLONGED SKIN CONTACT MAY CAUSE IRRITATION. ASPIRATION DURING
INGESTION/VOMITING MAY CAUSE INJURY TO BODY SYSTEMS. INHALATION MAY
CAUSE CNS & CARDIAC EFFECTS; LUNG I NJURY.

Explanation of Carcinogenicity:THIS PRODUCT CONTAINS

1,1,1-TRICHL

OROETHANE AND 1,4-DIOXANE.

Effects of Overexposure:EYES-IRRITATION. SKIN-IRRITATION, DRYING,

FLAKING. INGESTED-NO SPECIFICS FOUND. INHALED-DIZZINESS,

DRUNKENESS, UNCONSCIOUSNESS, DEATH, CARDIAC ARRYTHMIAS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:IN ALL CASES GET MEDICAL ATTENTION. EYES-FLUSH WITH WATER FOR
15 MINUTES. SKIN-REMOVE CONTAMINATED CLOTHES. WASH WITH MILD SOAP &

WATER. INHALED-REMOVE TO FRESH AIR. ADMINISTER OXYGEN OR ARTIFICIAL
RE SPIRATION AS NEEDED. INGESTED-DO NOT INDUCE VOMITING! CALL A
PHYSICIAN AND/OR TRANSPORT TO EMERGENCY FACILITY IMMEDIATELY.

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

Flash Point Method:TCC

Flash Point:NONE

Lower Limits:7.5 LFL

Upper Limits:12.5 UFL

Extinguishing Media:WATER FOG.

Fire Fighting Procedures:WEAR POSITIVE PRESSURE, SELF-CONTAINED
BREATHING APPARATUS.

Unusual Fire/Explosion

Hazard:VAPORS OF THIS SOLVENT MAY DEVELOP A

FLAMMABLE ATMOSPHERE IN CONFINED OR POORLY-VENTILATED AREAS.

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

Spill Release Procedures:MOP UP, WIPE UP, OR SOAK UP SMALL SPILLS.

REMOVE TO OUT OF DOORS. FOR LARGE SPILLS, EVACUATE AREA AND CONTAIN
THE LIQUID. TRANSFER THE LIQUID TO A CLOSED METAL CONTAINER. KEEP
OUT OF WATER SUPPLIES.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling a

nd Storage =====

Handling and Storage Precautions:HANDLE WITH REASONABLE CARE. AVOID BREATHING VAPORS. STORE IN A COOL, DRY PLACE. VAPORS ARE HEAVIER THAN AIR.

Other Precautions:NONE.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS RE

QUIRED. USE IAW 29 CFR 1910.134.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:IMPERVIOUS-NITRILE.

Eye Protection:CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:DLA-HMIS: EYE WASH STATION & SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

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

HCC:T4

Boiling Pt:B.P. Text:165F,74C

Vapor Pres:100

Vapor Density:4.5

Spec Gravity:1.31

Solubility in Water:NEGLIGIBLE

Appearance and Odor:IRRITATING ODOR AT HIGH CONCENTRATIONS. COLORLESS LIQUID.

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

Stability Indicator/Materials to Avoid:YES

PROLONGED CONTACT WITH WATER MAY CAUSE CORROSION. AVOID CONTACT WITH ALUMINUM AND ITS ALLOYS.

Stability Condition to Avoid:AVOD OPEN FLAMES, WELDING ARCS O

R OTHER

HIGH TEMPERATURE SOURCES WHICH INDUCE THERMAL DECOMPOSITION.

Hazardous Decomposition Products:HYDROGEN CHLORIDE AND VERY SMALL AMOUNTS OF PHOSGENE AND CHLORINEL

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

Waste Disposal Methods:SEND TO A LICENSED RECLAIMER OR TO A PERMITTED INCINERATOR. ANY DISPOSAL PRACTICE MUST BE IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. DO NOT DUMP INTO SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situatio

n.