

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

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

Product ID:CHLOROTHENE (R) SM SOLVENT

MSDS Date:05/12/1989

FSC:6810

NIIN:01-208-9266

MSDS Number: BGQQF

=== 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

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

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

CAS:71-55-6

RTECS #

:KJ2975000  
Fraction by Wt: 96.5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:350 PPM/450 STEL  
ACGIH TLV:350 PPM/450STEL;9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS  
Ozone Depleting Chemical:1

Ingred Name:1,4-DIOXANE (DIETHYLENE DIOXIDE) (SARA III)  
CAS:123-91-1  
RTECS #:JG8225000  
Fraction by Wt: 2.5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:S, 100 PPM  
ACGIH TLV:S, 25 PPM; 9293  
EPA Rpt Qty:100 LBS  
DOT Rpt Qty:100 LBS

Ingred Name:1,2-BUTYLENE OXIDE (SARA III)  
CAS:106-88-7  
RTECS #:EK3675000  
Fraction by Wt: 0.47%  
Other REC Limits:NONE SPECIFIED  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:NITROMETHANE  
CAS:75-52-5  
RTECS #:PA9800000  
Fraction by Wt: 0.34%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:100 PPM  
ACGIH TLV:100 PPM; 9192

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:EYES: MAY CAUSE SLIGHT TRANSIENT  
IRRITATION WI

TH SLIGHT TRANSIENT CORNEAL INJURY. SKIN: IRRITATION ON PROLONGED CONTACT. INGESTION: TOXICITY IS LOW. IF ASPIRATED, MAY BE ABSORBED AND RESULT IN INJURY TO OTHER PARTS OF THE BODY. INHALATION: CONCENTRATIONS OVER 1000 PPM TRICHLOROETHANE MAY CAUSE CNS DISORDERS.

Explanation of Carcinogenicity: THIS PRODUCT CONTAINS 1,1,1-TRICHLOROETHANE AND 1,4-DIOXANE.

Effects of Overexposure: EYES: MAY CAUSE PAIN. SKIN: DRYING OR FLAKING. INHALATION: DIZZINESS, DRUNKENNESS. AT CONC

ENTRATIONS > 10,000

PPM; MAY CAUSE UNCONSCIOUSNESS AND DEATH. MAY ALSO PRODUCE CARDIAC ARRHYTHMIAS.

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

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First Aid Measures  
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First Aid: EYES; IRRIGATE IMMEDIATELY WITH WATER FOR AT LEAST 5 MINUTES. SKIN: WASH OFF IN FLOWING WATER OR SHOWER. INHALATION: REMOVE TO FRESH AIR. ASSIST WITH BREATHING IF NECESSARY. INGESTION: DO NOT INDUCE VOMITING. CALL A PHYSICIAN AND/OR TRANSPORT TO EMERGENCY FACILITY IMMEDIATELY.

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Fire Fighting Measures  
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Flash Point: NONE

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.

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Accidental Release Measures  
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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

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Handling and Storage  
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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 Contr  
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ols/Personal Protection =====

Respiratory Protection:WHEN RESPIRATORY PROTECTION IS REQUIRED, USE AN APPROVED AIR-PURIFYING RESPIRATOR.

Ventilation:LOCAL EXHAUST VENTILATION MAY BE NECESSARY FOR SOME OPERATIONS.

Protective Gloves:RECOMMENDER FOR PROLONGED CONTACT

Eye Protection:USE SAFETY GLASSES.

Other Protective Equipment:EYE WASH STATION.

Work Hygienic Practices:NORMAL PROCEDURES.

Supplemental Safety and Health

NONE

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

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HCC:T4

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

Vapor Pres:100 MM HG

Vapor Density:4.55

Spec Gravity:1.321

Solubility in Water:INSOLUBLE

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:OPEN FLAMES, WELDING ARCS OR 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 AN Y BODY OF WATER.

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