

DOW CHEMICAL U S A -- CHLOROTHENE (R) SM SOLVENT, 16896 -- 6810-00-664-0387
===== Product Identification =====

Product ID:CHLOROTHENE (R) SM SOLVENT, 16896

MSDS Date:04/17/1991

FSC:6810

NIIN:00-664-0387

MSDS Number: BVGLR

=== Responsible Party ===

Company Name:DOW CHEMICAL U S A

City:MIDLAND

State:MI

ZIP:48674

Country:US

Info Phone Num:517-636-4400 / 800-447-4DOW

Emergency Phone Num:517-636-4400

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AGE:71983

=== Contractor Identification ===

Company Name:DOW CHEMICAL U.S.A.

City:MIDLAND

State:MI

ZIP:48674

Country:US

Phone:517-636-4400

CAGE:71983

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

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

CAS:71-55-6

RTECS #:KJ2975000

Fraction by Wt: 96.5%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:350 PPM

ACGIH TLV:350 PPM;STEL 450 PPM

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ozone Depleting Chemical:1

Ingred Name:DIETHYLENE ETHER

(1,4-DIOXANE) (SARA III)

CAS:123-91-1

RTECS #:JG8225000

Fraction by Wt: 2.5%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:25 PPM (SKIN)

ACGIH TLV:25 PPM (SKIN)

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingred Name:1,2-BUTYLENE OXIDE

CAS:106-88-7

RTECS #:EK3675000

Fraction by Wt: 0.47%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:STEL 2 PPM

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 RECOMMENDED

OSHA PEL:100 PPM

ACGIH TLV:100 PPM

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

LD50 LC50 Mixture:LD50 ORAL, RAT: >10,000 MG/KG;

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

Health Hazards Acute and Chronic:EYE: PAIN. SLIGHT TRANSIENT IRRITATION

WITH SLIGHT TRANSIENT CORNEAL INJURY. IRRITATION. SKIN: PROLONGED
OR REPEATED CONTACT MAY CAUSE IRRITATION, DRYING, FLAKING.

INGESTION: ASPIRATED PRODUCT MAY RESULT IN INJURY TO OTHER BODY
SYSTEMS. INHAL: HIGH CONCE

NTRATIONS (10000): UNCONSCIOUSNESS,
DEATH. CARDIAC ARTHYTHMIAS.

Explanation of Carcinogenicity:IN LONG TERM ANIMAL STUDIES, DID NOT
CAUSE CANCER

Effects of Overexposure:N/K LD50 DERMAL RABBIT: 15,000 MG/KG.

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

First Aid:EYE:IRRIGATE IMMEDIATELY WITH WATER AT LEAST 5 MIN. SKIN:WASH IN FLOW

WATER/SHOWER.INGEST:DON'T INDUCE VOMIT.CALL DR/TAKE TO EMERGENCY ROOM

IMMEDIATELY.INHAL:REMOVE TO FRESH AIR.IF NO BREATH, MOUTH-TO-MOUTH RESUSCITATION.IF
BREATH

TH DIFFIC LT,OXYGEN.CALL DR.NOTE TO DR:RAPID ABSORPTN MAY OCCUR
THRU LUNGS(ASPIRTD).INDUCE VOMIT AT DR'S INSTRUCT.IF
LAVAGE,ENDOTRACHEAL/ ESOPHOGEAL CONTROL.NO SYMPATHOMIATIC DRUGS-W/O
ABSOLUTE NEED.NO ANTIDOTE

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

Flash Point Method:TOC

Flash Point:NONE

Lower Limits:7.5

Upper Limits:12.5

Extinguishing Media:WATER FOG

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

Unusual Fire/

Explosion Hazard:VAPORS OF THIS SOLVENT MAY DEVELOP &
FLAMMABLE ATMOSPHERE IN CONFINED OR POORLY-VENTILATED AREAS.

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

Spill Release Procedures:SMALL LEAKS: MOP UP, WIPE UP, OR SOAK UP
IMMED. REMOVE TO OUT OF DOORS. LARGE SPILLS: EVACUATE AREA. CONTAIN
LIQUID; TRANSFER TO CLOSED METAL CONTAINERS. KEEP OUT OF WATER
SUPPLIES.

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

Handling and Storage P

recautions:HANDLE WITH REASONABLE CARE.AVOID

BREATHING VAPORS. STORE IN COOL, DRY PLACE. CONCENTATED VAPORS
HEAVIER THAN AIR, MAY COLLECT IN LOW/CONFINED AREAS.

Other Precautions:DON'T ENTER LOW OR CONFINED AREA WITHOUT SPECIAL
BREATHING APPARATUS & OBSERVER PRESENT. DON'T PACKAGE IN ALUMINUM
AEROSOL CAN W/FINELY DIVIDED ALUMINUM OR ALLOY IN AREOSOL CAN.
ALUMINUM NOT ACCEPTABL E MAT'L FOR PUMPS, MIXERS, FITTINGS, #

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

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Respiratory Protection:MAINTAIN ATMOSPHERIC LEVELS TLV/PEL,USE POSITIVE PRESSURE
SCBA. IN CONFINED/POORL Y VENTED AREA,USE POSTIVE PRESSURE SCBA.

Ventilation:CONTROL AIRBORNE CONCENTRATION