

VAN WATERS AND ROGERS INC -- CHLOROTHENE SM SOLVENT, CHEMCO SAF-T-SOLV --
6850-01-424-8532

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

Product ID:CHLOROTHENE SM SOLVENT, CHEMCO SAF-T-SOLV

MSDS Date:12/19/1995

FSC:6850

NIIN:01-424-8532

MSDS Number: CCMZH

=== Responsible Party ===

Company Name:VAN WATERS AND ROGERS INC

Address:6100 CARILLON POINT

City:KIRKLAND

State:WA

ZIP:98033

Country:US

Info Phone Num:206

-889-3400

Emergency Phone Num:206-889-3400

CAGE:0STM5

=== Contractor Identification ===

Company Name:CHEMICAL COMMODITIES AGENCY, INC.

Address:27447 PACIFIC STREET

Box:City:HIGHLAND

State:CA

ZIP:92346-2640

Country:US

Phone:909-864-2310

CAGE:60777

Company Name:VOPAK USA INC

Address:6100 CARILLON POINT

Box:City:KIRKLAND

State:WA

ZIP:98033-7357

Country:US

Phone:425-889-3400/425-889-3617

CAGE:0STM5

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

Ingred Name:METHYL CHLOROFORM (

1,1,1-TRICHLOROETHANE) (SARA 313)
(CERCLA)
CAS:71-55-6
RTECS #:KJ2975000
Fraction by Wt: 96.5%
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:1,4-DIOXANE (DIETHYLENE DIOXIDE) (SARA 313) (CERCLA)
CAS:123-91-1
RTECS #:JG8225000
Fraction by Wt: 2.5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:S, 100 PPM
ACGIH TLV:S, 25 PPM; 9596
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

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: 0.34%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 PPM
ACGIH TLV:20 PPM; 9596

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

LD50 LC50 Mixture:LD50 ORAL, RAT: >10,000 MG/KG;
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of

Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYE: PAIN. SLIGHT TRANSIENT IRRITATION WITH SLIGHT TRANSIENT CORNEAL INJURY. IRRITATION. SKIN: PROLONGED OR REPEATED MAY CAUSE IRRITATION, DRYING, FLAKING. INGESTION: ASPIRATED PRODUCT MAY RESULT IN INJURY TO OTHER BODY SYSTEMS. INHALATION: HIGH CONCENTRATIONS (10000): UNCONSCIOUSNESS, DEATH. CARDIAC ARTHYTHMIAS.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATION

S OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:EYE PAIN, TRANSIEN IRRITATION, SKIN IRRITATION, DRYING, FLAKING, CHEMICAL PNEUMONIA, UNCONSCIOUSNESS, CARDIAC ARTHYTHMIAS, DEATH.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING.

WASH WITH SOAP AND WATER. IF IRRITATION PERSIST, GET MEDICAL ATTENTION. INH ALATION: REMOVE TO FRESH AIR. RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IF OCCURS, KEEP HEAD BELOW HIPS. GET MEDICAL ATTENTION.

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

Flash Point Method:TCC

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:MINIMIZE AREA EFFECTED BY SPILL. BLOCK ANY POTENTIAL ROUTES TO WATER SYSTEMS. NOTIFY PROPER AUTHORITIES. USE ABSORBENT TO RECOVER SPILLED MATERIAL. KEEP OUT OF WATER SUPPLIES.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:HANDLE W/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 =====

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