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VAN WATERS AND ROGERS INC -- SOLVENT 111, GENERAL PURPOSE GRADE, INDUSTRIAL GRADE -- 6810-00-664-0387

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

Product ID:SOLVENT 111, GENERAL PURPOSE GRADE, INDUSTRIAL GRADE

MSDS Date:03/01/1994

FSC:6810

NIIN:00-664-0387 Status Code:A

MSDS Number: CJVDS === Responsible Party ===

Company Name: VAN WATERS AND ROGERS INC

Address:6100 CARILLON POINT

City:KIRKLAND

State:WA

ZI

P:98033-7357 Country:US

Info Phone Num:425-889-3617

Emergency Phone Num:425-889-3617 Resp. Party Other MSDS Num.:P71945V

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: DC GROUP UNITED MARINE SUPPLY

Address:23205 EARLY AVE

Box:City:TORRANCE

State:CA

ZIP:90505-4002

Country:US

Phone:310-784-1960

CAGE:00H62

Company Name: VOPAK USA IN

С

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:1,1,1-TRICHLOROETHANE

CAS:71-55-6

RTECS #:KJ2975000

= Wt:96.5

OSHA PEL:1900 MG/M3;350 PPM

OSHA STEL:450 PPM STEL

ACGIH TLV:1910 MG/M3;350 PPM ACGIH STEL:2460 MG/M3;450 PPM

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ozone Depleting Chemical:1

Ingred Name:1,4-DIETHYLENE DIOXIDE

CAS:123-91-1

R

TECS #:JG8225000

< Wt:3.

OSHA PEL:360 MG/M3;100 PPM ACGIH TLV:90 MG/M3;25 PPM

EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS

Ingred Name:1,2-BUTYLENE OXIDE

CAS:106-88-7

RTECS #:EK3675000

< Wt:.5

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE:INHAL:MAJOR POTNTL RTE OF EXPOS.

MIN EFTS OBSER

VED 1000 PPM.

BLOOD PRESS DEPRESS, CARD SENSI T & VENTRICULAR ARRHY CAN RSLT FROM EXPOS TO NEAR-ANESTH LEVELS. STUDIES IN LAB ANIMALS HAVE SHOWN 1,1,1-TRICHLOROETHANE IN AEROSOL FORM TO BE MORE ACUTELY TOX THAN 1,1,1-TRICHLOROETHANE VAP. EYE CONT :LIQ CAN CAUSE SLIGHT TEMPORARY IRRIT W/SLIGHT TEMPORARY CORNEAL INJURY. VAPS CAN IRRIT EYES. SKIN CONT:RPTD/PRLNG CONT CAN CAUSE IRRIT, DEFAT OF SKIN & DERM. ABSORPTION THRU INTACT SKIN IS POSS IF CO NT W/LIQ IS PRLNG. (EFTS

OF OVEREXP)

- Explanation of Carcinogenicity:THE AVAILABLE DATA INDICATES THAT 1,1,1-TRICHLOROETHANE AND THIS MIXTURE ARE NOT CARCINOGENIC IN LAB ANIMALS. 1,1,1-TRICHLOROETHANE IS NOT LISTED ON THE OSHA, IARC OR NTP CARCINOGEN LISTS.
- Effects of Overexposure:HLTH HAZ:1,4-DIETHYLENE DIOXIDE AS PURE SUBSTANCE IS READILY ABSORBED THRU SKIN. INGEST:SINGLE DOSE TOX IS LOW TO MOD. IF VOMIT OCCURS, 1,1,1-TRICHLOROETHANE CAN BE ASPIRATED INTO LUNGS, WHICH CAN CAU SE CHEM PNEUM
- & SYSTEMIC EFTS.

CHRONIC:CHLOROCARBON MATLS HAVE PRDCD SENSIT OF MYOCARDIUM TO EPINEPHRINE IN LAB ANIMALS & COULD HAVE SIMILAR EFT IN HUMANS. ADRENOMIMETICS (E.G., EPINEPHRINE) MAY BE CON TRAINDICATED EXCEPT FOR LIFE-SUSTAINING USES IN HUMANS ACUTELY/CHRONICALLY EXPOSTO CHLOROCARBONS. FINDING OF CHRONIC TOX EFTS IN LAB ANIMALS MAY INDICATE TOX TO HUMANS. OVEREXP SHOULD BE AVOIDE D, FAILURE TO DO SO COULD (SUPP DATA)

Medical Cond Aggravated by Exposure:ACUTE AND CHRONI C LIVER DISEASE AND RHYTHM DISORDERS OF THE HEART.

First Aid:INHALATION: REMOVE PATIENT TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, CALL MD. EYES: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES IF IRRITATION PERSISTS, CALL MD. SKIN: IMMED IATELY FLUSH WITH WATER FOR AT LEAST 15MINUTES IF IRRITATION PERSISTS. CALL MD. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH EXPOSED AREA WITH

SOAP AND WATER. WASH CONTAMINATED

CLOTHING BEFORE REUSE. INGESTION: DO NOT INDUCE VOMITING. CONTACT MD OR EMERGENCY MEDICAL FACILITY IMMEDIATELY. NOTE TO MD (INCLUDING ANTIDOTES): ADRENALINE SHOULD NEVER BE GIVEN TO PERSONS OVEREXPOSED TO 1,1,1-TRICHLOROETH ANE.

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

Flash Point Method:TCC Flash Point:NONE Lower Limits:7.5% Upper Limits:15.0%

Extinguishing Media:WATER, DRY CHEMICALS, FOAM OR CARBON DIOXIDE.

Fire F

- ighting Procedures:WEAR NIOSH APPROVED PRESSURE DEMAND SCBA & FULL PROTECTIVE EQUIPMENT . AVOID SKIN CONTACT.
- Unusual Fire/Explosion Hazard:THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE HCL & PHOSGENE . CONCENTRATED VAPORS CAN BE IGNITED BY HIGH INTENSITY IGNITION SOURCE. NFPA RATINGS: HEALTH 2; FLAMMABILITY 1: REACTIVITY 0.

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

Spill Release Procedures:EVACUATE AREA, VENT & AVOID BRTHG VAPS. DIKE AREA TO CO

NTAIN SPILL. IF SPILL OCCURS INDOORS, TURN OFF AIR
CONDITIONING &/OR HEATING SYS, TO PVNT VAPS FROM CONTAM ENTIRE
BLDG. CLEAN UP AREA (WEAR PROT EQUIP - REFER TO PERSONAL PROT &
CONTROLS SECTION) BY MOPPING UP/WITH ABSORB MATL & PLACE IN CLSD
CNTNRS FOR DISP. AVOID CONTAM OF GROUND & SURF WATERS. DO NOT FLUSH
TO SEWER. REPORTABLE (SUPP DATA)

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

Handling and Storage Precautions: AVOID CONT W/SKIN & AVOID BRTHG VAPS.

DO NOT EAT, DRINK/SMOKE IN WORK AREA. FOLLOW PROT CONTROLS SET FORTH IN PERSONAL PROT & CONTROLS SECTION WHEN HNDLG THIS PROD. STORE LABELED & SEALED CNTNRS IN CO OL, DRY, WELL-VENTED AREA. PVNT WATER/MOIST AIR FROM ENTERING STOR TANKS/CNTNRS.

Other Precautions:NO SMOKING IN AREA OF USE. DO NOT USE IN GEN VICIN OF ARC WELDING, OPEN FLAMES &/OR HOT SURFS. HEAT &/OR UV RADIA MAY CAUSE FORM OF HCL &/OR PHOSGENE . DO NOT CUT/WELD ON EMPTY/FULL DRUMS. ALUMI NUM EQUIP

SHOULD NOT BE USED FOR STOR &/OR TRANSFER.

VAPS ARE HVR/AIR & WILL COLLECT IN LOW AREAS. D O NOT (SUPP DATA)

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

Respiratory Protection:WHERE VAPOR CONCENTRATION EXCEEDS OR IS LIKELY TO EXCEED 350 PPM, A NIOSH APPROVED ORGANIC VAPOR RESPIRATOR IS ACCEPTABLE. A NIOSH APPROVED SCBA OR AIR LINE RESPIRATOR, WITH FULL FACE PIECE, IS REQUIR ED FOR VAPOR CONCENTRATIONS ABOVE 1000 PPM AND FOR SPILLS AND/OR EMERGENCIES

- . FOLLOW ANY APPLICABLE RESPIRATOR USE STANDARDS OR REGULATIONS.
- Ventilation:DO NOT USE IN CLOSED OR CONFINED SPACE. OPEN DOORS AND/OR WINDOWS. USE VENTILATION TO MAINTAIN EXPOSURE LEVELS BELOW 350 PPM.

Protective Gloves: IMPERVIOUS GLOVES.

- Eye Protection: ANSI APPROVED CHEMICAL WORKERS GOGGLES & FULL LENGTH FACESHIELD.
- Other Protective Equipment:EYE WASH & DELUGE SHOWER MEETING ANSI DESIGN CRITERIA . TO DETERMINE EXPOSURE LEVEL(S), MONITORING SHOULD BE PERFORMED REGULARLY.

W

ork Hygienic Practices:WASH HANDS PRIOR TO EATING, DRINKING OR USING RESTROOM. CONTACT LENSES SHOULD NOT BE WORN.

Supplemental Safety and Health

EFTS OF OVEREXP:RSLT IN INJURY, ILLNESS/EVEN DEATH. CHRONIC EXPOS TO 1,1,1-TRICHLOROETHANE & THIS MIXT HAVE CAUSED LIVER TOX EFTS IN EXPTL ANIMALS. -- SPILL PROC:QTY IS 1000 LBS. NOTIFY NRC (80-424-88 02) OF UNCONTAINED RELS TO ENVIRON IN EXCESS OF RQ. -- OTHER PREC:ENTER CONFINED SPACES SUCH AS TANKS/ (ECOLOGICAL INFO)

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

Boiling Pt:=73.9C, 165.F B.P. Text: @ 760 MM HG

Vapor Pres:100 MM HG @ 20C

Vapor Density:4.6(AIR=1)

Spec Gravity:1.32 @ 25/25C (H*2O=1)

Evaporation Rate & Evaporation R

Solubility in Water: 0.07 G/100 G @ 25C

Appearance and Odor: CLEAR, COLORLESS LIQUID; MILD, SWEET ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

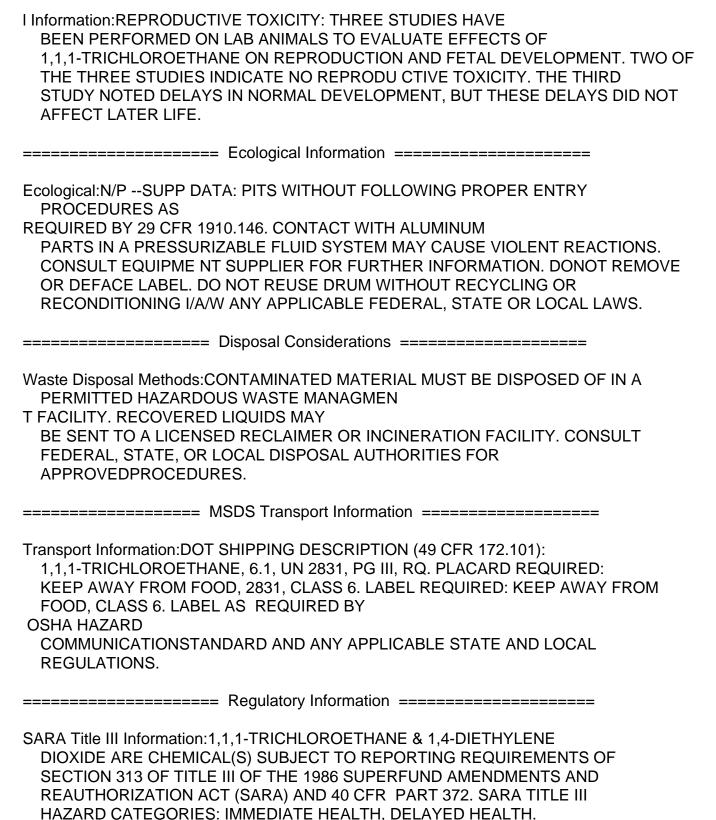
STRONG ALKALI

S, OXIDIZERS, AND REACTIVE METALS (I.E. ALUMINUM, POTASSIUM, SODIUM, ETC). REFER TO HANDLING AND STORAGE SECTION FOR ADDITIONAL INFORMATION ON ALUMINUM.

Stability Condition to Avoid:AVOID CONTACT WITH FLAMES, ELECTRIC ARCS, OR OTHER HOT SURFACES THAT CAN CAUSE THERMAL DECOMPOSITION. Hazardous Decomposition Products:HYDROGEN CHLORIDE, CHLORINE, PHOSGENE. Conditions to Avoid Polymerization:WILL NOT OCCUR.

======== Toxicological Information ===========

Toxicologica



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====== Other Information ============

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