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## VAN WATERS AND ROGERS INC -- TRICHLOROETHYLENE -- 6810-00-184-4794

Product ID:TRICHLOROETHYLENE

MSDS Date:04/01/1992

FSC:6810

NIIN:00-184-4794

MSDS Number: BWPRP === Responsible Party ===

Company Name: VAN WATERS AND ROGERS INC

Address:6100 CARILLON PT

City:KIRKLAND

State:WA ZIP:98033 Country:US

Info Phone Num:206-889-3712

Emergency Phone Num:206-889-3712

Prepare

r's Name: MSDS COORDINATOR

CAGE:0STM5

=== Contractor Identification === 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:TRICHLOROETHYLENE (SARA III)

CAS:79-01-6

RTECS #:KX4550000 Fraction by Wt: 99.9%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:100 PPM; Z-2

ACGIH TLV:50 PPM/100STEL,A5;94

EPA Rpt Qty:100 LBS

DOT Rp

LD50 LC50 Mixture:LD50 ORAL, RATS = 4920MG/KG.

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

Health Hazards Acute and Chronic: EYE: MAY CAUSE PAIN, SLIGHT

IRRIT.CORNEAL INJURY UNLIKELY.VAP MAY IRRIT.SKIN:PROLO/REPE EXPO MAY CAUSE IRRIT.MAY CAUSE DRYING/FLAKING.MAY CAUSE MORE SEVERE RESPONSE IF CONFINED TO SKIN.SKIN ABSORPTION:A BSORBED TO SOME DEGREE INCREASING BLOODCONC/CAUSING FINGER NUMBNE

SS.INGEST:LG AMTS

SERIOUS INJURY EVEN DEATH.(SUPPLEME)

Explanation of Carcinogenicity:PER MSDS:+CARC RESPONSE OCCURRED ONLY IN MICE GIVEN LG DOSES.DATA SUGGEST SHOULD POSE LITTLE/NO CARC HAZ FOR MAN.PROP65.

Effects of Overexposure:ALCOHOL CONSUMED BEF/AFT EXPO MAY INCREASE ADVERSE EFFECTS.REPEATED EXPO CAUSE CENTRAL/PERIPHERAL NERVOUS SYS EFFECTS.

Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

	First Aid Measures	
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First Aid:EYE:WASH IMMED W/WATER @LEAST 5MIN.SKIN:WASH OFF IN FLOWING WATER/SHOWER.REMOVE CONTAMIN CLOTH.INGEST:DO NOT INDUCE VOMIT.CALL DR &/OR TRANSP TO EMERG FACILITY IMMED.INHAL:MOVE TO FRESH AIR.NOT BREATH GIVE MOUTH-TO-MOUTH RESUSC.BREATH DIFFGIVE OXY.CALL DR.DR:DUE TO RAPID ABSORPTION FRM ASPIRATION DR SHOULD DECIDE TO INDUCE OR NOT.LAVAGE-SUGGEST ENDOTRACHEAL/ESOPHAGEAL CNTRL.NO SYMPATHEMIMETIC DRU

 Fire Fighting	Measures	======

Flash Point Method:TCC

Flash Point:NONE

Autoignition Temp: Autoignition Temp Text: 738F

Lower Limits:8% @100C Upper Limits:44.8% @100C

Extinguishing Media:WATER FOG.

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

Unusual Fire/Explosion Hazard:STRONG UNPLEASANT ODOR.CONC VAP ARE HEAVIER THANT IAR & WILL COLLECT IN LOW AREAS(PITS/DEGREASERS/STORAGE TKS/OTHER CONFINED AREAS)-USE OBSERVE/BREATH APPARATUS

====== Acciden

tal Release M	easures ====	 	_

Spill Release Procedures:SM:MOP/WIPE/SOAK UP IMMED.REMOVE TO OUT DOORS.LG:EVACUATE AREA.CONTAIN LIQ;TRANSFER TO CLSD METAL CNTNRS.KEEP OUT OF WATER SUPPLY.

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

Handling and Storage Precautions:SM AMTS OF 1,1,1-TRICHLORETHANE AFFECT STABILIZERS & SHORTEN SOLVENT LIFE.HANDLE W/REASONABLE CARE.AVOID VAP.STORE IN COOL PLACE.

Other Precautions:SOLVENT DECOMP OCCURS WHEN CATALYZE D BY METAL

CHLORIDES WHICH CAN BE PRODUCED BY RX OF HCL & METALS IN SYS.IN PRESENCE OF AL & EXCESS WATER DECOMP CAN PROCEED RAPIDLY W/PRODUCTION OF LG AMTS OF HEAT/H CL FUMES.

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

Respiratory Protection:MAINTAIN ATM LEVELS BELOW EXPO GUIDELINES.WHEN RESP PROT REQUIRED FOR CERTAIN OPERATIONS USE APPROVED AIR-PURIFYING RESP.EMERG/OTHER CONDITIONS WHERE EXPO GUIDLEINE EXCEEDED USE APPROVED +PRESS SCBA.C ONFINE

D/POOR VENTI USE APPROV

+PRES SCBA

Ventilation:CNTRL AIRBORNE CONC BELOW EXPO GUIDELINE.USE W/ADEQU VENTI.LOC EXHA NECESSARY FOR SOME OPERATIONS.LETHAL CONC W/POOR VEN Protective Gloves:REQUIRED FOR PROLONG/FREQ REPEAT CONTACT

Eye Protection: SAFETY GLASSES

Other Protective Equipment:CLEAN BODY-COVERING CLOTH.USE PROT CLOTH(GLOVES/BOOTS/APRON/SUIT)IMPERV TO MATL FOR PROLONG/REPEAT-SELECTION ON OPERATIN

Work Hygienic Practices:AIR THOROUGHLY CONTAMIN CLOTHING BEFORE REUSE. WSH

HANDS AFTER HANDLING.

Supplemental Safety and Health

HEALTH HAZ:ASPIRATED MAY ABSORBED RAPIDLY THRU LUNGS-INJURY TO OTHER BODY SYS.INHAL:VAP READILY ACCUMULATE, CAUSE UNCONSC/DEATH.EXCESS EXPO UPPER RESP IRRIT, INCREASE SENSITIVITY TO EPINEPHRINE, INCREASE MYOCARDIAL IRRIT(IRREG HEARTBEATS).ALCOHOL INTOLERANCE, TEMP REDDENING OF SKIN(DEGREASE FLUSH).ANESTHETIC, IRRIT, DIZZ, DRU

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

HCC:T4

Boiling Pt:B.P. Text:189F,87C

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apor Pres:60MM @20C Vapor Density:4.53 Spec Gravity:1.46 @25C Solubility in Water:0.1G/100G @25C

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

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

Stability Indicator/Materials to Avoid:YES

STRONG BSES, CAUSTIC SODA, CAUSTIC POTASH. METALLIC ALUMINUM & ZINC POWDERS HSOULD BE AVOIDED.

Stability Condition to Avoid:OPEN FLAMES/WELDING ACRS/OTHER HI TEMPS SOURCES WHICH INDUCE THERM DECOMP TO

IRRIT/CORR HCL FRM SOLVT

VAP.HI ENERGY SOUR

Hazardous Decomposition Products:HYDROGEN CHLORIDE, VERY SM AMTS OF PHOSGENE & CHLORINE.

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

Waste Disposal Methods:WHEN DISPOSING OF UNUSED CONTENTS PREFERRED OPTIONS ARE SEND TO LICENSED RECLAIMERS OR TO PERMITTED INCINERATORS.ANY DISPOSAL PRACTICE MUST BE IN COMPLIANCE W/LOCAL, STATE & FED REGS/LAWS.DO NOT DUMP INTO SEWERS/ON GROUND/INTO ANY BODY OF WATER.

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