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VAN WATERS AND ROGERS INC SUB OF UNIVAR CORP -- CHLOROTHENE (R) SM SOLVENT --

6810-00-476-5612

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

Product ID:CHLOROTHENE (R) SM SOLVENT

MSDS Date:04/19/1991

FSC:6810

NIIN:00-476-5612
MSDS Number: BMZVT
=== Responsible Party ===

Company Name: VAN WATERS AND ROGERS INC SUB OF UNIVAR CORP

Address: 1600 NORTON BLDG

City:SEATLE State:WA ZIP:98104-1564 Country:US

Info Phon e Num:509-545-8401

Emergency Phone Num:509-545-8401, CHEMTREC 800-424-9300

CAGE:0HVJ3

=== Contractor Identification ===

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

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

CAS:71-55-6

RTECS #:KJ2975000 Fraction by Wt: 96.5%

Other

REC Limits:NONE SPECIFIED BY M. 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 BY M.

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

its: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
=========== Hazards Identification =============
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:ACUTE-EYE:IRRITATION WITH POSSIBLE CORNEAL INJURY. SKIN:IRRITATION,DEFATTIN G.
INHALATION:DIZZINESS,DROWSINESS,THROAT IRRITATION(ABOVE 1,000PPM); UNCONSCIOUSNESS,CNS DEPRESSION,CARDIAC SENSITIZATION(AB OVE 10,000PPM). CHRONIC:DERMATITIS, LIVER AND HEART DISORDERS. Explanation of Carcinogenicity:1,4 DIETHYLENE DIOXIDE IS LISTED BY NTP
AND IARC AS A POSSIBLE CARCINOGEN. Effects of Overexposure:EYE:IRRITATION, REDNESS AND PAIN. INHALATION:DIZZINESS, DROWSINESS, NAUSEA, VOMITING, UNCONSCIOUSNESS & EVEN DEATH IN EXTREME CASES. Modical Cond Aggregated.
Medical Cond Aggravated by Exposure:PRE-EXISTING CONDITIONS EFFECTING LIVER AND HEART.
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First Aid:INHALATION:REMOVE TO FRESH AIR, PROVIDE CPR/OXYGEN IF NEEDED. EYE CONTACT:FLUSH WITH WATER FOR 15 MINUTES. SKIN CONTACT:WASH WITH SOAP AND WATER. GET MED ATTENTION IF SYMPTOMS PERSIST. INGESTION:DO NO T INDUCE YOMITING. GET MEDICAL HELP IMMEDIATELY

Flash Point Method:

TCC Flash Point:NONE Lower Limits:7.5 Upper Limits:15.0 Extinguishing Media: WATER, FOAM, DRY CHEMICAL, CARBON DIOXIDE (CO*2) Fire Fighting Procedures: FIRE FIGHTERS SHOULD WEAR PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS. Unusual Fire/Explosion Hazard: VAPORS CAN BE IGNITED BY HIGH INTENSITY IGNITION SOURCES, DECOMPOSES IN FIRE OR ON CONTACT WITH HOT SURFACES TO TOXIC GASES. ======== Accidental Release Measures ============ Spill Release Procedures: EVACU ATE THE AREA, VENTILATE & AVOID BREATHG VAP.USE APPROPRIATE PROTECTIVE GEARS. DIKE AREA TO CONTAIN SPILL. VACUUM UP OR ABSORB WITH INERT MATL & PLACE IN CLOSED CONTAINERS FOR DISPOSAL, AVOID CONTA MINATING GROUND WATER, DO NOT FLUSH TO SEWER. =========== Handling and Storage ============================ Handling and Storage Precautions: STORE IN COOL, DRY, WELL VENTILATED, LOW FIRE RISK AREA. PROTECT FROM PHYSICAL DAMAGE.KEEP CONTAINERS CLOSED. MAINTAIN STRICT HYGIENE FOR CHEM HANDLING. Other Precautions: AVOID CONTCT W/SKIN & AVOID BREATHG VAP.DO NOT WORK AROUND SPILLED AREA.DO NOT EAT/DRINK IN WORK AREA; NOTE TO DR:ADRENLIN SHOULD NEVER BE GIVEN TO PERSONS OVEREXPOSED TO 1,1,1-TRICHLOROETHANE. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: USE NIOSH APPROVED ORGANIC VAPOR RESPIRATOR IF ABOVE PEL/TVL OR USE SCBA IN AN ENCLOSED AREA. Ventilation:LOCAL EXHAUST/GENERAL TO MAINTAIN PEL/TLV. Protective G loves:NEOPRENE/VITON Eye Protection: CHEM. SAFETY GOGGLES Other Protective Equipment: SAFETY SHOWER & EYEWASH STATION SHOULD BE AVAILABLE. Work Hygienic Practices: AVOID CONTACT WITH SKIN AND EYES; DO NOT BREATHE VAPORS/MIST; DO NOT EAT, SMOKE OR DRINK IN WORK AREA. Supplemental Safety and Health ========= Physical/Chemical Properties =========== HCC:T4

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

Vapor Pres:100 MMHG Vapor Density:4.6 Spec Gravity:1.32

Evaporation Rate & Dry Reference: 0.4

Percent Volatiles by Volume:100
======== Stability and Reactivity Data ========
Stability Indicator/Materials to Avoid:YES STRONG ALKALIES,OXIDIZERS & REACTIVE MATERIALS. Stability Condition to Avoid:CONTACT WITH OPEN FLAME,HOT SURFACES. Hazardous Decomposition Products:HYDROGEN CHLORIDE, & PHOSGENE.
======= Disposal Considerations ===========

Appearance and Odor: CLEAR, COLORLESS LIQUID, MILDLY SWEET ODOR.

(ETHER = 1)

Solubility in Water: NEGLIGIBLE

Waste Disposal Methods:RECOVERED LIQUIDS MAY BE SENT TO LICENSED RECLAIMER OR INCINERATION FACILITY. CONTAMINATED MATERIAL MUST BE DISPOSED OF IN A PERMITTED WASTE MANAGEMENT FACILITY. CONSULT FEDERAL,STATE OR LOCAL DISPOSA L AUTHORITIES FOR APPROVED PROCEDURES.

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