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VAN WATERS & ROGERS INC -- P1546, TETRAHYDROFURAN -- 6810-00-982-8496

Product ID:P1546, TETRAHYDROFURAN MSDS Date:05/04/1990 FSC:6810 NIIN:00-982-8496 MSDS Number: BPMJC === Responsible Party === **Company Name: VAN WATERS & ROGERS INC** Address:1600 NORTON BLDG City:SEATTLE State:WA ZIP:98104-1564 Country:US Info Phone Num:408-435-8700 Emergency Phone Num:800-424-930 0(CHEMTREC) CAGE:DO735 === Contractor Identification === Company Name: VAN WATERS & ROGERS SUBSIDIARY OF UNIVAR Address:6100 CARILLON POINT City:KIRKLAND State:WA ZIP:98033 Country:US Phone:425-889-3400 CAGE:DO735 Company Name: VAN WATERS AND ROGERS INC., UNIVAR CORP. Address:1600 NORTON BLDG. 801 2ND AVENUE Box:City:SEATTLE State:WA ZIP:98104-1564 Country:US Phone:206-447-5911/800-424-9300(CHEMTREC) CAGE:87664

Ingred Name:FURA

N, TETRAHYDRO-; (TERAHYDROFURAN) CAS:109-99-9 RTECS #:LU5950000 Fraction by Wt: >99% OSHA PEL:200PPM;250 PPM STEL ACGIH TLV:200PPM;250 PPM STEL EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:INHIBITOR Other REC Limits:NONE SPECIFIED

Ingred Name:FIRST AID PROC:DO NOT GIVE ANYTHING BY MOUTH TO AN UNCON OR CONVULSING PERSON. RTECS #:9999999ZZ

Ingred Name:SPILL PROC: ORG VAP MAY BE SATIS. IN ANY EVENT, ALWAYS WEAR EYE PROT. EXTING ALL IGNIT SOURCES & ENSURE THAT ALL (ING 5) RTECS # :9999992Z

Ingred Name:ING 4:HNDLG EQUIP IS ELECTRICALLY GROUNDED. FOR SM SPILLS/DRIPS, MOP/WIPE UP & DISPOSE OF IN DOT-APPRVD WASTE (ING 6) RTECS #:9999999ZZ

Ingred Name:ING 5:CONTR. FOR LG SPILLS, CNTN BY DIKING W/SOIL/OTHER NON-COMBUSTIBLE ABSORB MATL & THEN PUMP INTO DOT-APPRVD (ING 7) RTECS #:9999999ZZ

Ingred Name:ING 6:WASTE CONTR/ABSORB W/NON-COMBUSTIBLE SORBENT MATL. PLACE RESIDUE IN DOT-APPRVD WASTE CONTR. KEEP OUT OF (ING 8) RTECS #:9999999ZZ

Ingred Name:ING 7:SEWERS, S TORM DRAINS, SURF H*2O, & SOIL. COMPLY W/ALL APPLIC GOVT REGS ON SPILL RPTG & HNDLG & DISP OF WASTE. RTECS #:9999999ZZ

Ingred Name:OTHER PREC: CONT W/AIR, IT MAY BE APPROP TO FILL CONTR HEADSPACE W/AN INERT GAS, SUCH AS NITROGEN. DO NOT CUT, (ING 10) RTECS #:9999999ZZ

Ingred Name:ING 9:GRIND/WELD/DRILL ON/NEAR CONTR. CONTR, EVEN THOSE HAVE BEEN EMPTIED, WILL RETAIN PROD RESIDUE & VAP. (ING 11) RTECS #:9999999ZZ

Ingred Name: ING 10: ALWAYS OBEY HAZ WARNINGS & HNDLE EMPTY CONTR AS IF

THEY WERE FULL. DISTILLATION, EVAP/EXPOSE TO LIGHT (ING 12) RTECS #:9999999ZZ

Ingred Name:ING 11:WILL ACCELERATE PEROXIDE FORMATION. DO NOT DISTILL/BOIL TO DRYNESS. ADDN OF REDUCING AGENTS/H*20 TENDS (ING 13) RTECS #:9999999ZZ

Ingred Name:ING 12:TO LESSEN PEROXIDE FORMATION. RTECS #:99999992Z

Ingred Name:RESP PROT: SCBA IN PRESENCE DEMAND MODE, OR A NIOSH/MSHA APPROVED SUPPLIED-AIR RESPIRATOR. RTECS #:9999999ZZ

Ingred Name:HYGIENE PRACT: TO THE SEVERITY OF AN EYE INJURY. RTEC S #:9999992Z

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: INHAL: VAP & MISTS IRRITATE NOSE/THROAT/RESP TRACT. INHAL OF HIGHER CONC MAY CAUSE HDCH/NAUSA/VOMIT, DIZZ & NARC. INHAL OF VERY HIGH CONC/PRLNG EXPOS MAY CAUSE UNCON. EYE: VAP WILL IRRITATE EYES. LIQ & MISTS WIL L IRRITATE & MAY BURN EYES. SKIN: BRIEF CONT MAY DRY SKIN. PRLNG/RPTD CONT MAY IRRITATE (EFTS OF OVEREXP) Explanation of Carcinogenicity:NOT RELEVANT Effects of Overexposure: HLTH HAZ: SKIN, CAUSING DERM. INGEST: SWALLOWING QTY CAUSES HDCH, NAUS, VOMIT & PERHAPS UNCON. CHRONIC: PRLNG/RPTD OVEREXPOS MAY RESULT IN DELAYED LIVER AND/OR KIDNEY DAMAGE. Medical Cond Aggravated by Exposure: THIS MATERIAL, OR ITS EMISSIONS MAY AGGRAVATE PULMONARY/BRONCHIAL DISEASE AND OR CAUSE BREA THING DIFFICULTY.

First Aid:INHAL:REMOVE TO FRESH AIR. GIVE ARTF RESP IF NOT BRTHG. GET IMMED MED ATTN. EYE: IMMED FLUSH W/LOTS OF RUNNING H*20 FOR @ LST 15 MIN, LIFT LIDS OCCAS. GET IMMED MED ATTN. SKIN: IMMED WASH W/LOTS OF SO AP & H*20. REMOVE CONTAMD CLTHG & SHOES; WASH BEFORE REUSE. GET MED ATTN IF IRRIT PERSISTS AFTER WASHING. INGEST: DO NOT INDUCE VOMIT. IF CONSCIOUS, GIVE LOTS OF H*20/MILK. GET

IMMED MED ATTN. (ING 3) Flash Point Method:TCC Flash Point:1F,-17C Lower Limits:2% Upper Limits:11.8% Extinguishing Media: USE DRY CHEM, ALCOHOL FOAM, OR CO*2. WATER MAY BE INEFFECTIVE TO FIGHT FIRE BUT MAY BE USED FOR VAPOR SUPPRESSION. Fire Fighting Procedures: NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT . USE WATER SPRAY TO COOL NEARBY CONTAINERS AND STRUCTURES EXPOSED TO FIRE. **Unusual Fire/Explos** ion Hazard: EXTING ALL NEARBY SOURCES OF IGNIT SINCE VAP ARE HVR/AIR & MAY TRAVEL CONSIDERABLE DIST TO IGNIT SOURCES & FLASHBACK. AVOID ACCUMULATION OF H*20 (SUPP DATA) Spill Release Procedures: WEAR PROT EQUIP INCL POLYVINYL ALCOHOL BOOTS, GLOVES, & APRON, & NIOSH/MSHA APPRVD SCBA IN PRESS DEMAND MODE/NIOSH/MSHA APPRVD SUPPLIED-AIR RESP. IF SPILL/LEAK IS SM, NIOSH/MSHA APPRVD FULL FACEPIECE AIR-PURIFYING CA RTRIDGE RESP EQUIPPED FOR (ING 4) Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER. Handling and Storage Precautions: KEEP AWAY FROM HEAT/SPARKS/FLAMES. STORE IN COOL, DRY, WELL-VENTD PLACE AWAY FROM INCOMPATIBLE MATL. KEEP AIR OUT OF CONTR. Other Precautions: ELECTRICALLY GROUND ALL EQUIP WHEN HNDLG PROD & USE ONLY NON-SPARKING TOOLS. KEEP CONTR TIGHTLY CLSD WHEN NOT IN USE. DO NOT USE PRESS TO EMPTY CONTR. DO NOT GET IN EYES, ON SKIN, OR CLTHG. SINCE PROD DEGRADES UPON STANDING & IN (ING 9) Respiratory Protection: IF USE CNDTNS GENERATE VAP/MISTS, WEAR A NIOSH/MSHA APPRVD RESP APPROP FOR THOSE EMISSIONS LEVELS. APPROP RESP MAY BE A NIOSH/MSHA APPROVD FULL FACEPIECE AIR-PURIFYING CARTRIDGE RESP EQUIPPED FOR ORG VAP/MISTS. A NIOSH/MSHA APPRVD (ING 14)

Ventilation:LOC MECH EXHAUST VENT CAPABLE OF MAINTAINING E

MISSIONS @ POINT OF USE BELOW PEL. Protective Gloves: POLYVINYL ALCOHOL GLOVES. Eye Protection: CHEMICAL WORKERS GOGGLES . Other Protective Equipment: LONG-SLEEVED SHIRT, TROUSERS, SFTY SHOES, POLYVINYL APRON. AN EYEWASH & SAFETY SHOWER SHOULD BE NEARBY & READY FOR USE. Work Hygienic Practices: WASH THORO AFTER HNDLG. CONT LENSES SHOULD NOT BE WORN WHEN WORKING W/CHEM BECAUSE CONT LENSES MAY CONTRIBUTE (ING 15) Supplemental Safety and Health EXPLO HAZ: BECAUSE PROD WILL FLOAT ON H*2O & MAY BE REIGNITED ON SURF OF H*20. EXPLO VAP-AIR MIXT MAY BE FORMED ABOVE FL PT/BETWEEN LOWER & UPPER FLAMM LIM. HOT ORG CHEM VAP/MISTS ARE SUSCEPTIBLE TO SUDDEN SPONT COMBUSTION WHEN MIXED W/AIR. IGNIT MAY OCCUR @ TEMP BELOW "AUTOIGNITION" OR "IGNITION TEMPERATURE. Boiling Pt:B.P. Text:149F,65C Vapor Pres:129-160 Vapor Density:2.5 Spec Gravity:0.9(H*2O=1) Evaporation Rate & amp; Reference:>1(BUTYL ACET ATE=1) Solubility in Water:100 Appearance and Odor: ETHER-LIKE ODOR Stability Indicator/Materials to Avoid:YES OXIDIZERS, LITHIUM ALUMINUM HYDRIDE & ALKALINE EARTH HYDROXIDES. Stability Condition to Avoid: HEAT, SPARKS, & OPEN FLAMES. EXPOSURE TO

LIGHT, PROLONGED EXPOSURE TO AIR.

Hazardous Decomposition Products:ON STANDING AND IN CONTACT WITH AIR FORMS POTENTIALLY UNSTABLE PEROXIDES.

Conditions to Avoid Polymerization:P

OLYM CAN OCCUR IN PRESENCE OF

CATIONIC INITIATIORS SUCH AS SELECTGED LEWIS ACIDS/STRONG PROTON ACIDS.

Waste Disposal Methods:DISPOSE OF CONTAM PROD & MATL USED IN CLEANING UP SPILLS/LEAKS IN MANNER APPRVD FOR MATL. CONSULT APPROP FED/ST/LOC REGULATORY AGENCIES TO ASCERTAIN PROPER DISP PROC. NOTE:EMPTY CONTR CAN HAVE RESIDUE /GASES & MISTS & ARE SUBJECT TO PROPER WASTE DISP.

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