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GREAT LAKES CHEMICAL CORP -- REOLUBE MP 280B -- 9150-01-113-2046

Product ID:REOLUBE MP 280B MSDS Date:01/03/2001 FSC:9150 NIIN:01-113-2046 Status Code:A MSDS Number: CLNTZ === Responsible Party === Company Name: GREAT LAKES CHEMICAL CORP Address:1 GREAT LAKES BLVD Box:2200 City:WEST LAFAYETTE State:IN ZIP:47996-2200 Country:US Info Phone Num:765-497-6100 Emergenc y Phone Num:800-949-5167 Resp. Party Other MSDS Num.: MSDS NUMBER: 00736 Chemtrec Ind/Phone:(800)424-9300 CAGE:2E394 === Contractor Identification === Company Name: GREAT LAKES CHEMICAL CORP Address:1801 HWY 52 NW Box:2200 City:WEST LAFAYETTE State:IN ZIP:47996-2200 Country:US Phone:765-497-6100/800-949-5167 Contract Num:SP0450-01-R-1744 CAGE:2E394

Ingred Name:TER-BUTYLATED TRIPHENYL PHOSPHATES CAS:68937-40-6 Minumum % Wt:60. M axumum % Wt:100.

Ingred Name:TRIPHENYL PHOSPHATE CAS:115-86-6 RTECS #:TC8400000 Minumum % Wt:7. Maxumum % Wt:13. OSHA PEL:3 MG/M3 ACGIH TLV:3 MG/M3

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:EYE: NOT EXPECTED TO BE A HAZARD IN NORMAL INDUSTRIAL USE. SKIN: NOT EXPECTED TO BE A HAZARD IN NORMAL INDUSTRIAL USE. INGESTION

: NOT EXPECTED TO BE A HAZARD IN NORMAL INDUSTRIAL USE. INHALATION: N OT EXPECTED TO BE A HAZARD IN NORMAL INDUSTRIAL USE. CHRONIC: MAY CAUSE REPRODUCTIVE AND FERTILITY EFFECTS BASED ON ANIMAL DATA. EPIDEMIOLOGY STUDIES COMPLETED IN 1977 AND 1985 OF CURRENT AND FORMER WORKERS AT THE PRODUCTION FACILITY WERE KRONITEX, DURAD, NATURAL AND SYNTHETIC TRIARYL PHOSPHATE ESTERS ARE MANUFACTURED HAVE NOT DEMOSTRATED ANY UNUSUAL PATTERN OF MORTALITY OR DISEASE.

Explanation o

f Carcinogenicity:ACGIH: NO. OTHER: NO.

Effects of Overexposure:NO KNOWN SIGNS AND SYMPTOMS OF EXPOSURE. Medical Cond Aggravated by Exposure:NONE REPORTED.

First Aid:EYES: FLUSH WITH LARGE VOLUMES OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN: WASH WITH LARGE VOLUMES OF SOAP AND WATER FOR AT LEAST 15 MINUTES. IF IRRITATION DEVELOPS, GET MEDICAL AT TENTION. INGESTION: IF CONSCIOUS, GIVE PERSON 1 TO 2

GLASSES OF WATER. GET MEDICAL ATTENTION IMMEDIATELY. INHALALATION: REMOVE PERSON TO FRESH AIR. GET MEDICAL ATTENTION. ANTIDOTES: NO INFORMATION AVA ILABLE. "SEE OTHER INFORMATION"

Flash Point Method:PMCC Flash Point:=243.3C, 470.F Autoignition Temp:=538.C, 1000.4F Lower Limits:NOT AVAILABL Upper Limits:NOT AVAILABL Extinguishing Media:WATER FOG, CARBON DIOXIDE (CO2), DRY CHEMICAL, MULTIPURPOSE FOAM. Fire F ighting Procedures:WEAR A SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT SKIN AND EYE CONTACT IN FIRE SITUATIONS.

Unusual Fire/Explosion Hazard:UNDER FIRE CONDITIONS, TOXIC AND IRRITATING FUMES MAY BE EMITTED. SLIGHTLY COMBUSTIBLE. NO EXPLOSION HAZARD.

Spill Release Procedures: SPILL: ABSORB SPILLED MATERIAL ON COMMERCIAL OIL ABSORBANT OR SAND. PLACE IN SUITABLE LABELED CONTAINER FOR

DISPOSAL. ENVIRONMENTAL PRECAUTIONS: KEEP MATERIAL OUT OF STREAMS AND SEWERS. AVOID RELEASIN G TO THE ENVIRONMENT.

Handling and Storage Precautions:HANDLING-USE APPROPRIATE PERSONAL PROTECTION EQUIPMENT. AVOID EYE, SKIN & CLOTHING CONTACT. DO NOT BREATHE MIST OR VAPOR. AVOID REPEATED & PROLONGED CONTACT. AVOID THE GENERATION OF AEROSOLS FROM SPRA YING, POURING OR VIGOROUS AGITATION WHENEVER POSSIBLE, PAR

TICULARLY IF PRODUCT IS HEATED.

Other Precautions:STORAGE-IF THE GENERATION OF AIRBORNE MATERIAL CANNOT BE AVOIDED, EXHAUST VENTILATION &/OR PERSONALK PROTECTIVE EQUIPMENT SHOULD BE USED. STORAGE-STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM I NCOMPATIBLE MATERIALS. KEEP CONTAINER TIGHTLY CLOSED. PROTECT CONTAINER AGAINST DAMAGE.

Respiratory Protection:WEAR A NIOSH/MSHA APPROVED ORGANIC CARTRIDGE RES

PIRATOR IF MISTING OR VAPOR OCCURS, OR THERE IS POTENTIAL FOR AIRBORNE EXPOSURES TO EXCEED ESTABLISHED THRESHOLD VALUES. CONSULT THE OSHA RESPIRATORY PR OTECTION INFORMATION LOCATED AT 29 CFR 1910.134 AND THE AMERICAN NATIONAL STANDARD INSTITUTE'S PRACTICES OF RESPIRATORY PROTECTION Z88.2. " SEE OTHER INFO"

Ventilation: USE LOCAL VENTILATION TO KEEP LEVELS BELOW ESTABLISHED THRESHOLD VALUES. USE MECHANICAL VENTILATION FOR GENERAL AREA CONTROL.

Protective Gloves:BUTYL(HEAVY

DUTY) OR POLYETHYLENE (LIGHT DUTY) GLOVES. Eye Protection: CHEMICAL SAFETY GOGGLES. Other Protective Equipment: VITRON FLUOROELASTOMER, NITRILE AND LATEX GLOVES ARE SUITABLE FOR SHORT TERM SERVICE. WEAR AN APRON OR IMPERVIOUS CLOTHING AND RUBBER BOOTS IF SPLASHING IS EXPECTED. Work Hygienic Practices: WASH THOROUGHLYAFTER HANDLING. WASH CONTAMINATED CLOTHING BEFORE REUSE. Supplemental Safety and Health PRODUCT NAME: REOLUBE MP 280B. SYNONYMS: TRIARYL PHOSPHATE, TERT-BUTYLATED; DURAD MP 280B; TERT-BUTYLATED TRIPHENYL PHOSPHATE. PRODUCT USE: HIGH PERFORMANCE HYDRAULIC FLUID. CHEMICAL NAME: TERT-BUTYLA TED TRIPHENYL PHS\OSPHATE. CHEMICAL FAMILY: ARYL PHOSPHATE. 

HCC:V7 Boiling Pt:B.P. Text:220C TO 270C @4MMHG Melt/Freeze Pt:M.P/F.P Text:NOT AVAILABLE Decomp Temp: Decomp Text: NOT AVAILABLE Vapor Pres: 0.033 MMHG AT 150C Vapor Density:NOT AVAILA Spec Gravity:1.145-1.165 @ 20 DEG C Viscosity:NOT **AVAILABLE** Evaporation Rate & amp; Reference: NOT AVAILABLE Solubility in Water: INSOLUBLE Appearance and Odor: CLEAR LIQUID. ODOR: NONE. COLOR: NONE Percent Volatiles by Volume:NONE PROVIDE Corrosion Rate:NONE PROVIDED BY MFR

Stability Indicator/Materials to Avoid:YES NONE KNOWN. Stability Condition to Avoid:STABLE UNDER NORMAL CONDITIONS OF HANDLING AND USE.

Hazardous Decomposition Products: THERMAL DECOMPOSITION MAY PRODUCT

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FOLLOWING OXIDES OF PHOSPHORUS: CARBON MONOXIDE AND CARBON DIOXIDE. Conditions to Avoid Polymerization:WILL NOT OCCUR.

Toxicological Information:ACUTE: BASED ON A SIMILAR PRODUCT, THIS PRODUCT HAS LOW ACUTE ORAL AND DERMAL TOXICITY AND IS NOT IRRITATING TO THE EYES AND SKIN. NO EVIDENCE OF DELAYED NEUROTOXICITY WAS OBSERVED IN RATS & HENS FOLL OWING ACUTE EXPOSURE. CHRONIC: NO DATA AVAILABLE FOR THE PROD

UCT. BASED ON A

SIMILAR PRODUCT, THIS PRODUCT IS NOT MUTAGENIC IN THE AMES TEST. A REPRODUCTIVE STUDY WITH A BUTYLATED TRIPHENYL PHOSPHATE INDICATED A SIGNFICANT DECLINE IN REPRODUCTION IN FEMALE RATS CHARACTERIZED BY LOW MATING & FERTILITY INDICES, DECREASED NUMBER OF LITTERS & ABNORMAL ESTROUS CYCLES. FERTILITY WAS ALSO DECREASED IN MA LE RATS.

Ecological:NO DATA AVAILABLE FOR THE PRODUCT. INFO GIVE N HERE IS FOR A SIMILAR PRODUCT. 96 HR LC50 (RAINBOW TROUT)= 3.4 (2.8-4.0) MG/L; 96 HR LC50(FATHEAD MINNOW)= 42.3(32.6-54.9) MG/L; 48 HR EC50 (DAPHNIA MAGNA )=3.9 (3.2-4.7) MG/L. NO DATA AVAILABLE ON CHEMICAL FATE.

Waste Disposal Methods:DISPOSE OF WASTE AT AN APPROVED CHEMICAL DISPOSAL FACILITY IN COMPLIANCE WITH ALL CURRENT LOCAL, STATE/PROVINCE, FEDERAL/CANADIAN LAWS & REGS. IF THE PRODUCT WAS SUPPLI

ED IN A SINGLE USE CONTAINER, CA RE SHOULD BE TAKEN TO DISPOSE OF IN A RESPONSIBLE MANNER & IN ACCORDANCE WITH APPLICABLE REGULATIONS . LABEL PRECAUTIONS SHOULD FOLLOW CONTAINERS.

Transport Information:U.S. DOT. PROPER SIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIPHENYL PHOSPHATE/TER-BUTYLATED TRIPHENYL PHOSPHATE MIXTURES CONTAINING 10% TO 48% TRIPHENYL PHOSPHATE). HAZARD CL ASS: 9 . GROUP: III. SPECIAL PROVISIONS: 8, N50, T1. NON-BULK PACKAGING: 203. PASSENGER AIR/RAIL LIMIT: NONE. VESSEL STOWAGE: A. REPORTABLE QUANTITY: N/A. ID NUMBER: UN3082. LABELS: MISCELLANEOUS, MARI NE POLLUTANT. PACKAGING EXECPTIONS: 155. BULK PACKAGING: 241. AIR CARGO LIMIT: NONE. OTHER STOWAGE: N/A.

SARA Title III Information:SARA HAZARDS: ACUTE-NO, REACTIVE-NO, PRESSURE-NO, CHRONIC-YES, FIRE-NO.
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Regulatory Information:THE COMPONENTS OF THIS PRODUCT ARE
EITHER ON THE TSCA INVENTORY OR EXEMPT (I.E. IMPURITIES, A POLYMER COMPLYING WITH THE EXEMPTION RULE AT 40 CFR 728.250) FROM THE INVENTORY.

State Regulatory Information:STATE REGULATIONS: TRIPHENYL PHOSPHATE: MASSACHUSETTES SUBSTANCE LIST, NEW JERSEY RIGHT TO KNOWN SUBSTANCE LIST (1% REPORTING LIMIT), PENNSYLVANIA HAZARDOUS SUBSTANCE LIST (1% REPORTING LIMIT).

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articular situation.