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ROYAL LUBRICANTS COMPANY INC. -- ROYCO 560 -- 9150-01-439-2070

Product ID:ROYCO 560 MSDS Date:10/17/2000 FSC:9150 NIIN:01-439-2070 Status Code:A MSDS Number: CLGZQ === Responsible Party === Company Name: ROYAL LUBRICANTS COMPANY INC. Address:MERRY LN Box:518 **City:EAST HANOVER** State:NJ ZIP:07936-0518 Country:US Info Phone Num:973-887-7411/7410 **Emergency Phone Num:** 973-887-7411 Resp. Party Other MSDS Num.:740,054-3 Preparer's Name: PRODUCT SAFETY Chemtrec Ind/Phone:(800)424-9300 CAGE:07950 === Contractor Identification === Company Name: ROYAL LUBRICANTS COMPANY INC. Address:215 MERRY LN Box:518 City:EAST HANOVER State:NJ ZIP:07936 Country:US Phone:973-887-7411/7410 Contract Num:SP0450-01-C-0635 CAGE:07950

Ingred Name:SYNTHETIC ESTER CAS:67762-53-2 Fraction by Wt: 0% T0 >9%

Ingred Name:SY

NTHETIC ESTER CAS:67762-52-1 Fraction by Wt: 0% T0 >90%

Ingred Name:OCTYLATED N-PHENYL-1-NAPHTHYLAMINE CAS:68259-36-9 &It; Wt:2.

Ingred Name:P,P-DIOCTYLDIPHENYLAMINE CAS:68411-46-1 &It; Wt:2.

Ingred Name:TRICRESYL PHOSPHATE (MIXED ISOMERS) CAS:1330-78-5 RTECS #:TD0175000 = Wt:1.

Ingred Name:MINOR ADDITIVES (MIXTURE) &It; Wt:1.

LD50 LC50 Mixture:NOT AVAILABLE FOR PRODUCT. Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:N O

Health Hazards Acute and Chronic:EYE CONTACT: MILDLY IRRITATING. SKIN CONTACT: MILDLY IRRITATING. PROLONGED/REPEATED CONTACT MAY RESULT IN ABSORPTION OF TRICRESYL PHOSPHATE WHICH COULD LEAD TO DELAYED NEUROTOXICITY. RELEASE DURING H IGH PRESSURE MAY RESULT IN INJECTION OF OIL INTO SKIN CAUSING LOCAL NECROSIS. INHALATION: VAPORS, GENERATED AT HIGH TEMPERATURES ONLY, OR OIL MISTS FROM PRODUCT MAY BE MILDLY IRRITATING TO THE NOSE, THROAT, AND RESPIRATORY TRACT. COULD

LEAD TO DELAYED NEUROTOXICITY. INGESTION:

COULD BE TOXIC IF SWALLOWED, RESULTING IN DELAYED NEUROTOXICITY. Explanation of Carcinogenicity:THIS PRODUCT DOES NOT CONTAIN ANY CARCINOGENS AS IDENTIFIED BY IARC, NTP, OR OSHA.

Effects of Overexposure:IRRITATION AS NOTED IN HEALTH HAZARD. DELAYED NEUROTOXICITY MAY BE EVIDENCED BY NUMBNESS AND TINGLING OF THE HANDS AND FEET, WEAKNESS AND CRAMPS, AND UNSTEADY GAIT. LOCAL NEGROSIS IS EVIDENCED BY DELA YED ONSET OF PAIN AND TISSUE DAM AGE A

FEW HOURS FOLLOWING INJECTION. Medical Cond Aggravated by Exposure:PREEXISTING EYE, SKIN, RESPIRATORY AND NERVE DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

First Aid:EYE CONTACT: FLUSH WITH PLENTY OF WATER FOR 15 MIN. WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAIMINATED CLOTHING/SHOES AND WIPE EXCESS FROM SKIN. FLUSH WITH WATER. FO LLOW BY WASHING WITH SO

AP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED. CONTAMINATE LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE DECONTAMINATED AND SHOUL D BE DESTROYED. IF MATERIAL INJECTED UNDER SKIN, SEEK MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. (CONTD. SEE " OTHER INFO.").

Flash Point Method:COC
Flash Point:=260.C, 500.F
Extinguishing Media:USE WATER FOG, FOAM, DRY CHE
MICAL OR CO2, DO NOT
USE A DIRECT STREAM OF WATER. PRODUCT WILL FLOAT AND CAN BE
REIGNITED ON SURFACE OF WATER.
Fire Fighting Procedures:MATERIAL WILL NOT BURN UNLESS PREHEATED. DO
NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS). INCLUDING A
POSTIIVE PRESSURE NIOSH APPROVED SELF CONTAINED BREATHING
APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.
Unusual Fire/Explosion Hazard:NONE IDENTIFIED.

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Spill Release Procedures: MAY BURN BUT NOT READILY IGNITABLE. WEAR RESPIRATOR AND PROTECTIVE CLOTHING. STOP LEAK IF POSSIBLE. DIKE AND CONTAIN SPILL. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDU E WITH AN ABSORBENT (CLAY, SAND OR OTHER SUITABLE MATERIAL). DISPOSE OF PROPERLY. FLUSH AREA WITH WATER TO REMOVE RESIDUE. TAKE UP SMALL SPILLS WITH AN ABSORBENT AND DISPOSE OF PROPERL

Y. Neutralizing Agent:NONE PROVIDED BY MFR

Handling and Storage Precautions:STORE IN A COOL DRY PLACE WITH ADEQUATE VENTILATION. AVOID SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, APPLYING COSMETICS, OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. Other Precautions:KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

====== Exposure Controls/Personal Protec

Respiratory Protection: IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS AND PARTICULATES.

Ventilation:NONE PROVIDED BY MFR

Protective Gloves: AVOID CONTACT WITH SKIN. WEAR CHEMICAL-RESISTANT GLOVES.

Eye Protection: AVOID CONTACT WITH EYES. WEARAFETY GLASSES OR GOG GLES AS

APPROPRIATE.

Other Protective Equipment: AVOID CONTACT WITH SKIN WEAR CHEMICAL RESISTANT PROTECTIVE CLOTHING.

Work Hygienic Practices: AVOID SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, APPLYING COSTMETICS, OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. Supplemental Safety and Health

HCC:V6 Boiling Pt:B.P. Text:NOT AVAILABLE Melt/Freeze Pt:M.P/F.P Text :NOT AVAILABLE Decomp Temp:Decomp Text:NONE PROVIDED BY MFR Vapor Pres:NOT AVAILABLE Vapor Density:NOT AVAILA Spec Gravity:.99 (H2O=1) APPROX. pH:NONE PROVIDED Viscosity:28.0 CST @ 100 DEG F Evaporation Rate & amp; Reference:NOT AVAILABLE Solubility in Water:NEGLIGIBLE. Appearance and Odor:CLEAR LIQUID. Percent Volatiles by Volume:NONE PROVIDE Corrosion Rate:NONE PROVIDED BY MFR

Stability Indicator/Materials to Avoid:YES CONTAC

T WITH STRONG OXIDIZING AGENTS. Stability Condition to Avoid:AVOID HEAT, FLAME. Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS DEPENDENT ON CONDITIONS. MIXTURE OF AIRBORNE SOLID, LIQUID, PARTICULATES, GASES EVOLVE DURING PYROLYSIS OR COMBUSTION. CARBON MONOXIDE AND OTHER ORGANIC COMPOUNDS FORMED Conditions to Avoid Polymerization:WILL NOT OCCUR.

Toxicological Information:TRICRESYL PHOSPHATE (MIXED ISOMERS) HAS BEEN

REPORTED TO PRODUCE DELAYED NEUROTOXICITY IN EXPERIMENTAL ANIMALS. THE ORTHO ISOMER IN THEIS ADDITIVE IS KEPT BELOW A MINIMUM PURSUANT TO MILITARY SPECIFIC ATIONS (TYPICALLY 0.03%). MOBIL HAS RECENTLY REPORTED A STUDY TO THE EPA PURSUANT TO SECTION 8(E) OF TOSCA IN WHICH THEY DEMONSTRATE THAT TRICRESYL PHOSPHATE (MIXED ISOMERS) AT 3% IN A LUBRICANT BASE OIL PRODUCED SIGNIFICANT SERUM AND ERYTHROCYTE CHOLINESTERASE INHIBITION AS WELL AS NEUROPATHY TA RGET

ESTERASE (NEUROTOXIC ESTERASE) INHIBITORS. OTHER STUDIES WITH TCP IN RATS AND MICE INVOLVING ORAL (CONTD. SEE "ECOLOGICAL")

Ecological:UNDER EPA-CWA, THIS PRODUCT IS CONSIDERED AN OIL UNDER SECTION 311; SPILLS INTO OR LEADING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-8802. (CONTD. FROM "TOXICOLOGICAL") ADMINISTRATION PRODUCED A DECREASE IN SP ERM CONCENTRATION AND SPERM MOTILITY WITH RESULTING DECREASED LITTER SIZE AND PUP VIABILITY IN FEMALES.

Waste Disposal Methods:PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS. UNDER EPA-CWA, THIS PRODUCT IS CONSIDERED AN OIL UNDER SECTION 311. SPILLS INTO OR LEADING TO SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-8802.

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Transport Information:NOT HAZARDOUS BY DOT REGULATIONS.

SARA Title III Information: THIS PRODUCT IS CLASSIFIED AS A CHRONIC (DELAYED) HEALTH HAZARD UNDER SECTION 311/312 OF SARA TITLE I I I. Federal Regulatory Information: THE COMPONENTS OF THIS PRODUCT ARE

LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.

State Regulatory Information: (CONTD. FROM "OTHE

R INFO") THAN 1 GLASS OF

WATER AND 15 CC(1 TABLESPOON) OF SYRUP OF IPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSXIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CUFFED ENDOTRACHEAL TUBE.

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