

ROYAL LUBRICANTS COMPANY INC. -- ROYCO 560 -- 9150-01-439-0756

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

Product ID:ROYCO 560

MSDS Date:10/17/2000

FSC:9150

NIIN:01-439-0756

Status Code:A

MSDS Number: CLBFV

=== 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:201-887-7411

Emergency Phone Num:973-8

87-7411

Resp. Party Other MSDS Num.:ROYAL MSDS NUMBER: 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-M-LB11

CAGE:07950

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

Ingred Name:SYNTHETIC ESTER

CAS:67762-53-2

&lt; Wt:90.

Ingred Name:SY

NTHETIC ESTER

CAS:67762-52-1

&lt; Wt:90.

Ingred Name:OCTYLATED N-PHENYL-1-NAPHTHYLAMINE

CAS:68259-36-9

&lt; Wt:2.

Ingred Name:P,P'-DIOCTYLDIPHENYLAMINE

CAS:68411-46-1

&lt; Wt:2.

Ingred Name:TRICRESYL PHOSPHATE (MIXED ISOMERS)

CAS:1330-78-5

RTECS #:TD0175000

= Wt:1.

Ingred Name:MINOR ADDITIVES (MIXTURE)

&lt; Wt:1.

===== Hazards Identification =====

LD50 LC50 Mixture:NOT AVAILABLE

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogen

icity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYE: MILDLY IRRITATING. SKINI: MILDLY IRRITATING. PROLONGED/REPEATED CONTACT MAY RESULT IN ABSORPTION OF TRICRESYL PHOSPHATE WHICH COULD LEAD TO DELAYED NEUROTOXICITY. RELEASE DURING HIGH PRESSURE MA Y RESULT IN INJECTION OF OIL INTO SKIN CAUSING LOCAL NECROSIS. INHALATION: MILDLY IRRITATING TO THE NOSE, THROAT, & RESPIRATORY TRACT. COULD LEAD TO NEUROTOXICITY. INGESTION: COULD BE TOXIC IF SWALL OWED, RES

ULTING 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 DAMAGE 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 Measures =====

First Aid:EYE: FLUSH WITH PLENTY OF WATER FOR 15 MIN. WHILE HOLDING EYELIDS OPEN. SKIN: REMOVE CONTAMINATED CLOTHING/SHOES & WIPE EXCESS FROM SKIN. FLUSH WITH WATER. IF MATERIAL IS INJECTED UNDER THE SKIN, SEEK PROMPT MEDICAL ATTENTION. INHALATION: REMOVE VICTIM TO FRESH AIR & PROVIDE OXYGEN IF BREATHING IS DIFFICULT. INGESTION: DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. OTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER & INDUCE VOMITING BY GIVING 30 CC (2 TABLESPOONS) SYRUP OF IPECAC OR BY TOUCHING THE BACK OF VICTIM'S THROAT. GET MEDICAL ATTENTION IN ALL CASES OF EXPOSURE.

=====  
===== Fire Fighting Measures =====

Flash Point Method:COC  
Flash Point:≈260.C, 500.F  
Lower Limits:N/AV  
Upper Limits:N/AV  
Extinguishing Media:USE WATER FOG, FOAM, DRY CHEMICAL 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 POSITIVE PRESSURE NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.  
Unusual Fire/Explosion Hazard  
:NONE IDENTIFIED

=====  
===== Accidental Release Measures =====

Spill Release Procedures:USE CAUTIOUS JUDGMENT. WEAR RESPIRATOR & PROTECTIVE CLOTHING AS APPROPRIATE. SHUT OFF SOURCE OF LEAK IF SAFE TO DO SO. DIKE & CONTAIN. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL. DISPOSE OF PROPERLY. FLUSH AREAS WITH WATER TO REMOVE RESIDUE. TAKE UP SMALL SPILLS WITH

ABSORBENT MATERIAL & CLEAN AREA.  
Neutralizing Agent:NONE PROVIDED BY MFR

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

Handling and Storage Precautions:STORE IN A COOL DRY PLACE WITH  
ADEQUATE VENTILATION.  
Other Precautions:KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES.

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

Respiratory Protection:IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL  
EXPOSURE LIMITS USE A NIOSH-APPROVED RESPIRATOR TO PREVE  
NT  
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:CHEMICAL-RESISTANT GLOVES

Eye Protection:SAFETY GLASSES OR GOGGLES AS APPROPRIATE

Other Protective Equipment:CHEMICAL RESISTANT PROTECTIVE CLOTHING.

Work Hygienic Practices:AVOID SKIN CONTACT. WASH WITH SOAP AND WATER  
BEFORE EATING, DRINKING, SMOKING, APPLYING COSTMETIC  
S, OR USING

TOILET FACILITIES. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

NONE PROVIDED BY MFR

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

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 & Reference:NOT A

AVAILABLE

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CLEAR LIQUID

Percent Volatiles by Volume:NONE PROVIDE

Corrosion Rate:NONE PROVIDED BY MFR

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

Stability Indicator/Materials to Avoid:YES

CONTACT WITH STRONG OXIDIZING AGENTS

Stability Condition to Avoid:AVOID HEAT, FLAME

Hazardous Decomposition Products:CARBON MONOXIDE AND OTHER UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED UPON COMBUSTION.

Conditions to Avoid Polymerization:WILL NOT OCCUR

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

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.

===== MSDS Transport Information =====

Transport Information:NOT HAZARDOUS BY DOT REGULATIONS.

===== Regulatory Information =====

SARA Title III Information:THIS

PRODUCT IS CLASSIFIED AS A CHRONIC

(DELAYED) HEALTH HAZARD UNDER SECTION 311/312 OF SARA TITLE III.

Federal Regulatory Information:THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.