

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

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

Product ID:ROYCO 560
MSDS Date:11/01/1998
FSC:9150
NIIN:01-439-2070
Status Code:A
MSDS Number: CKGTV
=== 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
Emergency Phone Num:973-88
7-7411
Resp. Party Other MSDS Num.:740-054-3
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:SP0450-00-M-C199
CAGE:07950

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

Ingred Name:SYNTHETIC ESTER
CAS:68424-31-7
> Wt:90.

Ingred Name:SYNTHETIC ESTER
CAS:68424-33-9
> Wt:90.

Ingred Na

me:OCTYLATED N-PHENY-1-NAPHTHALENAMINE

CAS:68259-36-9

< Wt:2.

Ingred Name:P,P'-DIOCTYLDIPHENYLAMINE

CAS:101-67-7

< Wt:2.

Ingred Name:TRICRESYL PHOSPHATE

CAS:1330-78-5

RTECS #:TD0175000

= Wt:1.

Ingred Name:MINOR ADDITIVES

< Wt:1.

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

Health Hazards Acute and Chronic:EYE-PRODUCT IS EXPECTED TO BE NO MORE THAN MILDLY IRRITATING TO THE EYE. SKIN-PRODUCT IS EXPECTED TO BE NO MORE THAN MILDLY IRRITATING TO THE SKIN

. PROLONGED AND/OR

REPEATED SKIN CONTACT MAY RESULT IN ABSORPTION OF TRICRESYL PHOSPHATE WHICH COULD LEAD TO DELAYED NEUROTOXICITY. RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING LOCAL NECROSIS. INHALATION-INHALATION OF VAPORS (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MIST FROM THIS PRODUCT MAY BE MILDLY IRRITATING TO THE NOSE, THROAT AND RESPIRATORY TRACT. INGESTION-THIS PRODUCT COULD BE TOXIC.

Effects of Overexposure:IRR

ITATION AS NOTED ABOVE. DELAYED

NEUROTOXICITY MAY BE EVIDENCED BY NUMBNESS & TINGLING OF THE HANDS & FEET, WEAKNESS & CRAMPS, & UNSTEADY GAIT. LOCAL NECROSIS IS EVIDENCED BY DELAYED 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:EYES-FLUSH WI

TH PLENTY OF WATER FOR 15 MINS WHILE HOLDING EYELIDS OPEN. GET MEDICAL AID. SKIN-REMOVE CONTAMINATED CLOTHING/SHOES & WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER. FOLLOW BY WASHING WITH SOAP & WATER. IF IRRITATION OCCURS, GET MEDICAL AID. IF MATERIAL IS INJECTED UNDER THE SKIN. GET MEDICAL AID PROMPTLY TO PREVENT SERIOUS INJURY. INHALATION-REMOVE VICTIM TO FRESH AIR & PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL AID. INGESTION-DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. GIVE NO MORE THAN 2 GLASSES OF WATER & INDUCE VOMITING BY GIVING 30CC SYRUP OF IPECA C. GET MEDICAL AID.

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

Flash Point Method:COC

Flash Point:=260.C, 500.F

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. D

O

NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

Unusual Fire/Explosion Hazard:NONE IDENTIFIED.

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

Spill Release Procedures:MAY BURN ALTHOUGH NOT READILY IGNITABLE. USE CAUTIOUS JUDGEMENT WHEN CLEANING UP LARGE SPILLS

. LARGE SPILL-WEAR

RESPIRATOR & PROTECTIVE CLOTHING AS APPROPRIATE. SHUT OFF SOURCE OF LEAK IF SAFE TO DO S O. DIKE & CONTAIN. REMOVE WITH VACUUM TRUCK, PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH ABSORBENT (CLAY, SAND, OTHER SUITABLE MATERIAL) DISPOSE OF PROPERLY. FLUSH AREA WITH WATER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN

FLAMES AND HIGH
TEMPERATURES.

Other Precautions:AVOID SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE
EATING, DRINKING, SMOKING, APPLYING COSMETICS OR USING TOILET
FACILITIES. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. *SMALL
SPILLS-TAKE UP WITH AN ABSORBENT MATERIAL AND DISPOSE OF PROPERLY.

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

Respiratory Protection:IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL
EXPOSURE LIMITS USE A NIOSH-APPROVED RESPIRATOR T

O 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.

Protective Gloves:WEAR CHEMICAL-RESISTANT GLOVES.

Eye Protection:WEAR SAFETY GLASSES OR GOGGLES AS APPROPRIATE.

Other Protective Equipment:WEAR CHEMICAL RESISTANT PROTECTIVE CLOTHING.

Work Hygienic Practices:AVOID CONTACT WITH EYES. AVOID CONTACT WITH
SKIN AND CLOTHING.

Supplemental Safety and Health

DO NOT REUSE

CLOTHING UNTIL CLEANED. CONTAMINATED LEATHER ARTICLES,
INCLUDING SHOES, CANNOT BE DECONTAMINATED & SHOULD BE DESTROYED TO
PREVENT REUSE.

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

HCC:N1

Spec Gravity:.99 (APPROX.)

Viscosity:100 DEG F 28.0CST

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CLEAR LIQUID.

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

Stability Indicator/Materials to Avoid:YES

AVOID HEAT, FLAME AND CONTACT WITH STRONG
OXIDIZING AGENTS.

Stability Condition to Avoid:AVOID HEAT, FLAME AND CONTACT WITH STRONG
OXIDIZING AGENTS.

Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS ARE
HIGHLY DEPENDENT ON THE COMBUSTION CONDITIONS. A COMPLEX MIXTURE OF
AIRBORNE SOLID, LIQUID, PARTICULATES & GASES WILL EVOLVE WHEN THIS
MATERIAL UNDERGOES PYROLYSIS OR

Conditions to Avoid Polymerization:WILL NOT OCCUR.

=====
===== Toxicological Information =====

Toxicological Informat

ion:TRICRESYL PHOSPHATE (MIXED ISOMERS): ORAL
LD50(RAT): >4.6 G/KG. DERMAL LD50(RAT): >4.6 G/KG.

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

Waste Disposal Methods:PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS.

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

Transport Information:DEPARTMENT OF TRANSPORTATION CLASSIFICATION: NOT HAZARDOUS BY D.O.T. 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. 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.

=====
===== Other Information =====

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.