

ROYAL LUBRICANTS COMPANY INC. -- ROYCO 770 TYPE 1 AND TYPE 2 -- 9150-00-111-6255
===== Product Identification =====

Product ID:ROYCO 770 TYPE 1 AND TYPE 2
MSDS Date:05/14/1998
FSC:9150
NIIN:00-111-6255
Status Code:A
MSDS Number: CJMKF
=== Responsible Party ===
Company Name:ROYAL LUBRICANTS COMPANY INC.
Box:518
City:EAST HANOVER
State:NJ
ZIP:07936-0518
Country:US
Info Phone Num:973-887-7411 / 7410
973-887-8404
Emergency Phone Num:973-887-7410
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:SP0450-99-M-B228
CAGE:07950

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

Ingred Name:SYNTHETIC HYDROCARBON
CAS:68649-12-7
Minumum % Wt:60.
Maxumum % Wt:65.

Ingred Name:SYNTHETIC ESTER
Minumum

% Wt:25.
Maxumum % Wt:30.
Other REC Limits:NONE SPECIFIED

Ingred Name:BARIUM DINONYLNAPHTHALENESULFONATE
CAS:25619-56-1
Minumum % Wt:2.
Maxumum % Wt:3.
Other REC Limits:0.5 MG/M3 SOLUBLE BA

Ingred Name:BUTYLATED TRIPHENYL PHOSPHATE
CAS:56803-37-3
Minumum % Wt:1.
Maxumum % Wt:2.

Ingred Name:MINOR ADDITIVES
< Wt:2.

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS: N/P. A
CUTE - EYE

CONTACT: BASED ON PRESENCE OF COMPONENT 3, PRODUCT IS IRRITATING TO EYES. SKIN CONTACT: PROLONGED OR REPEATED CONTACT MAY CAUSE VARIOUS SKIN DISORDERS SUCH AS DERMATITI S, FOLLICULITIS, OIL ACNE. RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF OIL INTO SKIN CAUSING LOCAL NECROSIS. INHALATION: VAPORS (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MISTS MAY BE MILDLY IRRITATING TO NOSE, THROAT, AND RESPIRATORY TRACT. INGESTION: THIS MATERIAL MAY BE HARMFUL/FATAL IF SWALLOWED. MAY RESULT IN VOMITING; ASPIRATION OF VOMITUS INTO LUNGS, EVEN SMALL QUANTITIE S MAY CAUSE PNEUMONITIS. CHRONIC - N/P.

Explanation of Carcinogenicity:THIS PRODUCT DOES NOT CONTAIN ANY CARCINOGEN AS IDENTIFIED BY IARC, NTP, OR OSHA.

Effects of Overexposure:IRRITATING TO EYES. PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE VARIOUS SKIN DISORDERS SUCH AS DERMATITIS, FOLLICULITIS, OIL ACNE. RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJE

CTION OF OIL IN TO SKIN CAUSING LOCAL NECROSIS.

INHALATION OF VAPORS (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MISTS MAY BE MILDLY IRRITATING TO NOSE, THROAT, AND RESPIRATORY TRACT. THIS MATERIAL MAY BE HARMFUL OR FATAL IF SWALLOWED. MAY RESULT IN VOMITING.

Medical Cond Aggravated by Exposure:PRE-EXISTING EYE, SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

===== First Aid Measures =====

First Aid:E

YE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING/SHOES AND WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER, FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED. INHALATION: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IN GENERAL, NO TREATMENT IS NECESSARY UNLESS LARGE QUANTITIES OF PRODUCT ARE INGESTED. GET MEDICAL ADVICE .

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

Flash Point:=221.1C, 430.F

Lower Limits:N/AV

Upper Limits:N/AV

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL 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 COAT, GLOVES, RUBBER BOOTS) INCLUDING POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

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

Spill Release Procedures:LARGE SPILLS: WEAR RESPIRATORY AND PROTECTIVE CLOTHING AS APPROPRIATE. SHUT OFF SOURCE OF LEAK IF SAFE TO DO SO. DIKE AND

CONTAIN SPILLS. REMOVE WITH VACUUM TRUCK OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE OR SMALL SPILLS WITH INERT MATERIAL SUCH AS SAND, CLAY, EARTH. SHOVEL INTO CONTAINERS FOR DISPOSAL. PREVENT RUN-OFF FROM ENTERING SEWERS. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, ADEQUATELY VENTILATED PLACE. KEEP AWAY FROM OPEN FLAMES, AND HIGH TEMPERATURES.

Other Precautions:WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

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

Respiratory Protection:USE NIOSH-APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29CFR1910.134.USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS AND PARTICULATES.

Protective Gloves:

WEAR GLOVES

Eye Protection:CHEMICAL SAFETY GOGGLES IF CONTACT IS POSSIBLE OR IN HIGH PRESSURE APPLICATIONS

Other Protective Equipment:WEAR OTHER CLOTHING AS REQUIRED TO MINIMIZE CONTACT.

Work Hygienic Practices:WASH WITH SOAP AND WATER BEFORE EATING,DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

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

HCC:V6

Spec Gravity:0.86

Evaporation Rate

& Reference:N/A N-BUTYL ACETATE=1

Solubility in Water:NEGLIGIBLE

Appearance and Odor:AMBER OIL (TYPE 1)/RED OIL (TYPE 2), SLIGHT ODOR

===== 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:A COMPLEX MIXTURE OF AIRBORNE SOLID, LIQUID, PARTICULATES AND GASES WILL EVOLVE. CARBON MONOXIDE AND OTHER UNIDENTIFIED ORGA

NIC COMPOUNDS MAY BE FORMED.

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

Waste Disposal Methods:DISPOSE OF HAZARDOUS WASTE D005 BASED ON BARIUM
CONTENT, UNLESS EXTRACTION RESULTS ARE LESS THAN EPA LIMITS.

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

Federal Regulatory Information:THE COMPONENTS OF THIS PRODUCT ARE
LISTED ON THE EPA/TOXIC SUBSTANCE CONTROL ACT (TSCA) INVENTORY OF
CHEMICAL SUBSTANCES.

State Regulatory Information:

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

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