

ROYAL LUBRICANTS COMPANY INC. -- ROYCO 777 -- 9150-01-388-7769

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

Product ID:ROYCO 777

MSDS Date:07/18/1995

FSC:9150

NIIN:01-388-7769

MSDS Number: CCKQJ

=== Responsible Party ===

Company Name:ROYAL LUBRICANTS COMPANY INC.

Address:MERRY LN (FORMALLY 6 CAMPUS DR)

Box:518

City:EAST HANOVER (FORMALLY IN PARSIPPANY)

State:NJ

ZIP:07936

Country:US

Info Phone Num:201-887-7

410/201-887-8404

Emergency Phone Num:201-887-7410/800-424-9300(CHEMTREC)

Resp. Party Other MSDS Num.:720,067-1

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-C217

CAGE:07950

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:SP

0450-99-M-B251
CAGE:07950
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-B339
CAGE:07950

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

Ingred Name:1-DECENE DIMER, HYDROGENATED/SYNTHETIC HYDROCARBON
CAS:68649-11-6
Minumum % Wt:30.
Maxumum % Wt:40.
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYALPHAOLEFIN BASE STOCK/SYNTHETIC HYDROCARBON
CAS:68649-12-7
Minumum % Wt:20.
Maxumum % Wt:30.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3 AS OIL MIST
ACGIH TLV:5 MG/M3 AS OIL MIST

Ingred Name:ADIPIC ACID; DIISOCTYL ESTER/DIISOCTYL ADIPATE
CAS:1330-86-5
Minumum % Wt:10.
Maxumum % Wt:20.
Other REC Limits:NONE RECOMMENDED

Ingred Name:SYNTHETIC ESTER/ISODECYL PELARGONATE
CAS:109-32-0
< Wt:10.
Other REC Limits:NONE RECOMMENDED

Ingred Name:MIXED ESTERS OF DECANOIC ACID
CAS:68954-22-3
< Wt:10.

Ingred Name:MINOR ADDITIVES
< Wt:2.

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Hazards Identification
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LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT KNOWN.

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES: EXPECTED TO BE NO MORE THAN MINIMALLY IRRITATING. SKIN: BASED ON COMPONENT INFORMATION PROLONGED OR REPEATED LIQUID CONTACT CAN RESULT IN DAFATTING & DRYING OF SKIN WHICH MAY RESULT IN SKIN IRRI TATION & DERMATITIS. RELE

ASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF OIL INTO SKIN CAUSING LOCAL NECROSIS. INHALATION: INHALATION OF VAPORS (GENERATED AT HIGH TEMPERATURES) OR OIL MIST M AY BE MILDLY IRRITATING TO NOSE, THROAT, RESPIRATORY TRACT. INGESTION: INGESTION OF PRODUCT MAY RESULT IN VOMITING, ASPIRATION (BREATHING) OF VOMITUS INTO LUNGS MUST BE AVOIDED AS EVEN SMALL QUANTITIE S MAY RESULT IN ASPIRATION PNEUMONITIS.

Explanation of Carcinogenicity:THIS PRODUCT DOES NOT CONTAI N ANY

CARCINOGEN AS IDENTIFIED BY IARC, NTP OR OSHA.

Effects of Overexposure:LOCAL NECROSIS IS EVIDENCED BY DELAYED ONSET OF PAIN & TISSUE DAMAGE A FEW HOURS AFTER INJECTION. ASPIRATION PNEUMONITIS MAY BE EVIDENCED BY COUGHING, LABORED BREATHING AND CYANOSIS (BLUISH SKIN): IN SEVERE CASES DEATH MAY OCCUR.

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

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First Aid Me
asures
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First Aid:EYE-FLUSH EYES WITH WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. SKIN-REMOVE CONTAMINATED CLOTHING & WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER. FOLLOWED BY WASHING WITH SOAP AND WATER. IF I RRITATION OCCURS, GET MEDICAL ATTENTION.DO NOT REUSE CLOTHING UNTIL CLEANED. IF MATERIAL IS INJECTED UNDER THE SKIN, GET MEDICAL ATTENTION PROMPTLY TO PREVENT SERIOUS INJURY. INHALATION-REMOVE VICTIM TO FRESH AIR & PROVIDE OXYGEN

IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION. INGESTION-DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQU ID INTO THE LUNGS. GET MEDICAL ATTENT.

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Fire Fighting Measures
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Flash Point Method:COC

Flash Point:=180.C, 356.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 FLO

AT 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:NOT PROVIDED

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

Spill Release

Spill Release Procedures:MAY BURN ALTHOUGH NOT READILY IGNITABLE. USE CAUTIOUS JUDGEMENT WHEN CLEANING UP LARGE SPILLS. LARGE SPILLS: WEAR RESPIRATOR & PROTECTIVE CLOTHING AS APPROPRIATE. SHUT OFF SOURCE OF LEAK IF SAFE. DIKE & CONTAIN. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE VESSEL. SOAK UP RESIDUE W/ABSORBENT LIKE CLAY, SAND, ETC. DISPOSE PROPERLY. SMALL SPILLS: USE ABSORBENT MATERIAL AND DISPOSE OF PROPERLY.

Neutralizing Agent:NOT PROVIDED

===== 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:LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

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

Respiratory Protection:AVOID BREATHING VAPOR AND MIST. IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (TOXOLOGICAL SECTION) 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:USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS..

Protective Gloves:WEAR GLOVES, NITRILE GLOVES.

Eye Protection:AVOID CONTACT WITH EYES. WEAR SAFETY GLASSES OR GOGGLES AS APPROPRIATE.

Other Protective Equipment:AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WEAR CLOTHING AS REQUIRED TO MINIMIZE

ZE CONTACT. TEST DATA

FROM PUBLISHED LITERATURE AND CLOTHING MANUFACTURERS IINDICATE THE BEST PROTECTION IS NITRILE.

Work Hygienic Practices:EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR EMERGENCY USE. WASH WITH SOAP & WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

NOTE TO PHYSICIAN: IF MORE THAN 2.0 ML PER KG HAS BEEN INGESTED AND VOMITING HAS NOT OCCURED, EMESIS SHOULD B E INDUCED WITH

SUPERVISION. KEEP VICTIM'S HEAD BELOW HIPS. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSION OR UNCONSCIOUSNESS OCCUR, GASTRIC LAVAGE USING A CUFFED ENDOTRACHEAL TUBE SHOULD BE CONSIDERED.

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

HCC:V6

NRC/State Lic Num:NOT RELEVANT

Spec Gravity:0.84 (H2O=1)

Viscosity:7.09 CS @100F

Solubility in Water:NEGLIGIBLE

Appearance and Odor:RED LIQUID - SLIGHT ODOR

===== Stability and Reactivity D ata =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

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

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

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

Toxicological Information:ROYAL RECOMMENDS THE PEL AND TLV FOR MINERAL OIL MIST - 5 MG/M3 TWA.

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Ecological Information =====

Ecological:UNDER EPA-CWA, THIS PRODUCT IS CLASSIFIED AS 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

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

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

===== MSDS Transport Information =====
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Transport Information:NOT HAZARDOUS BY DOT.

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

SARA Title III Information:NOT RELEVANT

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

State Regulatory Information:NOT PROVIDED

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

Disclaimer (provided with this information by the compiling agencies):

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ormulated 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.