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ROYAL LUBRICANTS COMPANY INC. -- ROYCO 315 -- 9150-00-231-2361
========== Product Identification ==========

Product ID:ROYCO 315
MSDS Date:05/01/1999
FSC:9150
NIIN:00-231-2361
Status Code:A
MSDS Number: CLCSJ
=== 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:973-887-7410
Emergency Phone Num:973-8
87-7411
Resp. Party Other MSDS Num.:750, 058-2
Chemtrec Ind/Phone:(800)424-9300
CAGE:07950
=== Contractor Identification ===
Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT
Address:2275 TUCKER INDUSTRIAL RD
Box:City:TUCKER
State:GA
ZIP:30084
Country:US
Phone:770-938-4513/FAX 770-938-3966
Contract Num:SP0450-01-M-LD24
CAGE:1MDA6
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
CAGE:07950

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

Ingred Name:SEVERELY HYDROTREATED HEAVY NAPHTHENIC DISTILLATE (PETROLEUM)
CAS:64742-52-5
RTECS #:PY8035000
Minumum % Wt:60.
Maxumum % Wt:80.
Other REC Limits:TLV=5 MG/M3 M. OIL

Ingred Name:HYDROTREATED LIGHT NAPHTHENIC DISTILLATE (PETROLEUM)
CAS:64742-53-6
RTECS #:PY8036000
Minumum % Wt:10.
Maxumum % Wt:20.
Other REC Limits:TLV=5 MG/M3 M. OIL

Ingred Name:ORGANIC ACIS, BARIUM SOAP, & SODIUM PETROLEUM SULFONATE
Minumum % Wt:5.
Maxumum
% Wt:15.

Ingred Name:SODIUM DINONYLNAPHTHALENE SULFONATE (CAS # 26834-28-6)
< Wt:5.

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYE: BASED ON THE PRESENCE OF COMPONENT 4, THIS PRODUCT IS EXPECTED TO BE SEVERELY IRRITATING TO THE EYES. SKIN: BASED ON COMPONENT INFORMATION PRODUCT IS EXPECTED TO BE MODERATELY IRRITATING TO THE SKIN. PROLONGED OR REPEATED CONTACT M
AY CAUSE VARIOUS SKIN DISORDERS SUCH AS DERMATITIS, FOLLICULITIS OR OIL ACNE. INHALATION: INHALATION OF VAPORS (GENERATED AT HIGH TEMPERATURES ONLY) OR OIL MISTS M AY BE MILDLY IRRITATING TO THE NOSE, THROAT AND RESPIRATORY TRACT. INGESTION: BASED ON COMPONENT INFORMATION PRODUCT MAY BE GENERALLY CONSIDERED TO HAVE A LOW ORDER OF ACUTE ORAL TOXICITY.
Explanation of Carcinogenicity:THIS PRODUCT DOES NOT CONTAIN ANY CARCINOGEN AS IDENTIFIED BY NTP, IARC, AND OSHA.
Effects o

f Overexposure:IRRITATION AS NOTED ABOVE. SKIN SENSITIZATION (ALLERGY) MAY BE EVIDENCES BY RASHES, ESPECIALLY HIVES.
Medical Cond Aggravated by Exposure:PREEXISTING EYE AND SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO COMPONENTS OF THIS PRODUCT.

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

First Aid:EYE: IMMEDIATELY FLUSH EYES W/ WATER FOR AT LEAST 15 MINS. WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING/SHOES & W
IPE EXCESS FROM SKIN. FLUSH SKIN W/
WATER. FOL LOW BY WASHING W/ SOAP & WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED. CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE DECONTAMINATED & SHOULD BE DESTROYED TO PREVENT REUSE. INHALATION: REMOVE VICTIM TO FRESH AIR & PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IN GENERAL, NO TREATMENT IS NEC ESSARY ? SEE "OTHER

INFORMATION" SECTION

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

Flash Point Method:COC
Flash Point:=182.2C, 360.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. 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 CONTAINER WITH WATER.
Unusual Fire/Explosion Hazard:SULFUR OXIDES AND HYDROGEN SULFIDE, BOTH OF WHICH ARE TOXIC, MAY BE RELEASED UPON COMBUSTION.

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

Spill Release Procedures:MAY BURN ALTHOUGH NOT READILY IGNITABLE. USE CAUTIOUS JUDGMENT WHEN CLEANING UP LARGE SPILLS.*LARGE SPILLS*WEAR RESPIRATOR & PROTEC

TIVE CLOTHING AS APPROPRIATE. SHUT OFF SOURCE OF
LEAK IF SAFE TO DO S O. DIKE & CONTAIN. REMOVE W/ VACUUM TRUCK OR PUMP TO STORAGE/SLAVAGE VESSELS.SOAK UP RESIDUE W/ AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL;DISPOSE OF PROPERLY. FLUSH RESIDUE W/ 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:WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, APPLYING COSMETICS, OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

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

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 A FULL-FACE ATMOSPHERE-SUPPLYING RESPIRAT OR OR AN AIR-PUR
IFYING RESPIRATOR FOR
ORGANIC VAPORS AND PARTICULATES.
Ventilation:USE EXPLOSION-PROOF VENTILATION AS REQUIRED TO CONTROL PARTICULATE CONCENTRATIONS.
Protective Gloves:WEAR CHEMICAL RESISTANT GLOVES AS REQUIRED TO MINIMIZE CONTACT.
Eye Protection:WEAR CHEMICAL GOGGLES IF THERE IS LIKELIHOOD OF CONTACT WITH EYES.
Other Protective Equipment:WEAR CHEMICAL RESISTANT CLOTHING AS REQUIRED TO MINIMIZE CONTACT. EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR EMERGEN
CY USE.
Work Hygienic Practices:AVOID CONTACT WITH EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN.
Supplemental Safety and Health
NOTE TO PHYSICIAN: IN GENERAL, EMESIS INDUCTION IS UNNECESSARY IN HIGH VISCOSITY, LOW VOLATILITY PRODUCTS, I.E., MOST OILS AND GREASES.

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

HCC:V6
Boiling Pt:B.P. Text:NOT AVAILABLE
Melt/Freeze Pt:M.P/F.P Text:NOT AVAILABLE
Vapor Pres:NOT AVAILABLE
Spec Gravity:.9 APPROX.
Viscosity:107.8@1

00 DEG. F
Evaporation Rate & Reference:2.06 (N-BU AC=1)
Solubility in Water:NEGLIGIBLE
Appearance and Odor:CLEAR TAN FLUID WITH 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:THERMAL DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT ON THE COMBUSTION CONDITIONS. A COMPLEX MIXTURE OF AIRBORNE SOLID
, LIQUID, PARTICULATES AND GASES WILL EVOLVE WHEN THIS MATERIAL UNDERGOES PYROLYSIS
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:OCCUPATIONAL EXPOSURE LIMIT, TLV/TWA = 5 MG/M3 MINERAL OIL MIST; TLV/STEL = 10 MG.M3 MINERAL OIL MIST.

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

Waste Disposal Methods:DISPOSE OF AS HAZARDOUS WASTE D005 IF EXTRACTABLY BARIUM EXCEE
DS THE CURRENT EPA LIMIT. UNDER EPA-CWA, THIS PRODUCT IS CONSIDERED AN OIL UNDER SECTION 311. SPILLS INTO OR LEADING TO SURFACE WATERS THA T CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CTR, 800-424-8802.

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

Transport Information:NOT HAZARDOUS BY DOT REGULATIONS.

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

SARA Title III Information:UNDER SARA TITLE III, SECTION 313, THIS PRO
DUCT CONTAINS BARIUM COMPOUNDS.
Federal Regulatory Information:THE COMJPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.

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

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