

ROYAL LUBRICANTS COMPANY INC. -- ROYCO 634 -- 9150-01-053-6688

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

Product ID:ROYCO 634

MSDS Date:06/11/1996

FSC:9150

NIIN:01-053-6688

Status Code:A

MSDS Number: CKXJF

=== 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:201-887-7410

Emergency Phone Num:201-8

87-7411

Resp. Party Other MSDS Num.: ROYAL MSDS NO: 730,003-2

Chemtrec Ind/Phone:(800)424-9300

CAGE:07950

=== Contractor Identification ===

Company Name:RADIANT INTL LLC

Address:8501 N MOPAC BLVD

Box:201088

City:AUSTIN

State:TX

ZIP:78720-1088

Country:US

Phone:512-419-5224

Contract Num:SP0450-00-D-4021

CAGE:29913

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

===== Composition/Info

Information on Ingredients =====

Ingredient Name:HIGHLY REFINED PETROLEUM OILS

Minimum % Wt:30.

Maximum % Wt:40.

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3 (OIL MIST)

ACGIH TLV:5 MG/M3 (OIL MIST)

ACGIH STEL:10 MG/M3 (OIL MIST)

Ingredient Name:CALCIUM DINONYLNAPHTHALENESULFONATE

CAS:57855-77-3

Minimum % Wt:5.

Maximum % Wt:10.

Other REC Limits:NONE RECOMMENDED

Ingredient Name:NON-HAZARDOUS COMPONENTS

Minimum % Wt:50.

Maximum % Wt:70.

Other REC Limits:NONE RECOMMENDED

===== Ha
Hazard Identification =====

LD50 LC50 Mixture:NOT AVAILABLE FOR PRODUCT.

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

Health Hazards Acute and Chronic:EYE CONTACT: MAY BE IRRITATING TO THE EYES. SKIN CONTACT: MODERATELY IRRITATING TO THE SKIN. INHALATION: TOXIC IF INHALED. INGESTION: THIS MATERIAL MAY BE HARMFUL OR FATAL IF SWALLOWED. INGESTION MAY RESULT IN VOMITING; ASPIRATION (BREATHING) OF VOMITUS INTO THE LUNGS MUST BE AVOIDED AS EVEN SMALL QUANTITIES

MAY RESULT IN ASPIRATION PNEUMONITIS.

Explanation of Carcinogenicity:THIS PRODUCT AND ITS COMPONENTS ARE NOT CLASSIFIED AS CARCINOGENS BY IARC, NTP, OR OSHA.

Effects of Overexposure:EYE CONTACT: IRRITATION. SKIN CONTACT:IRRITATION. INHALATION: TOXIC. INGESTION: VOMITING, ASPIRATION PNEUMONITIS. ASPIRATION PNEUMONITIS MAY BE EVIDENCED BY COUGHING, LABORED BREATHING, CYANOSIS (BLuish SKIN), IN SEVERE CASES DEATH MAY OCCUR.

Medical Condition Aggravated by Exposure:PRE-EXISTING

G EYE, SKIN AND

RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

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

First Aid: EYE CONTACT: FLUSH WITH WATER FOR AT LEAST 15 MINUTES, HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING/SHOES. WIPE EXCESS FROM SKIN. FLUSH WITH WATER, THEN WASH WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. LAUNDRY CLOTHING BEFORE REUSE. DESTROY

CONTAMINATED LEATHER ARTICLES. INHALATION: MOVE TO FRESH AIR. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION INTO LUNGS. GET MEDICAL ATTENTION.

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

Flash Point Method: COC

Flash Point: =100.C, 212.F

Lower Limits: NOT AVAILABLE

Upper Limits: NOT AVAILABLE

E

Extinguishing Media: USE WATER FOG, FOAM, DRY CHEMICAL OR CO₂. DO NOT USE 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.

Unusu

al Fire/Explosion Hazard: NONE PROVIDED BY MFR.

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

Spill Release Procedures: LARGE: ELIMINATE IGNITION SOURCES. WEAR RESPIRATOR AND PROTECTIVE CLOTHING. STOP LEAK. DIKE AND CONTAIN. REMOVE WITH VACUUM TRUCK OR PUMP TO SALVAGE VESSEL. SOAK UP RESIDUE WITH AN ABSORBENT; PLACE IN CONTAINER, SEAL TIGHTLY FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE; DISPOSE OF FLUSH SOLUTION AS ABOVE. SMALL: T

AKE UP WITH ABSORBENT, PLACE IN
CONTAINER FOR PROPER DISPOSAL.

=====
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:NONE PROVIDED BY MFR

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

Respiratory Protection:USE A NIOSH-APPROVED VAPOR RESPIRATOR AS
REQUIRED TO PREVENT OVEREXPOSURE. IN ACCO

RD WITH 29 CFR 1910.134,

USE EITHER A FULL-FACE ATMOSPHERE SUPPLYING RESPIRATOR OR AN AIR
PURIFYING RESPIRATOR FOR ORG ANIC VAPORS.

Ventilation:USE VENTILATION AS REQUIRED TO CONTROL VAPOR
CONCENTRATIONS.

Protective Gloves:WEAR CHEMICAL-RESISTANT GLOVES.

Eye Protection:WEAR CHEMICAL GOGGLES IF THERE IS POTENTIAL CONTACT WITH
EYES

Other Protective Equipment:AVOID CONTACT WITH SKIN AND CLOTHING. WEAR
CHEMICAL RESISTANT GLOVES AND PROTECTIVE CLOTHING.

Work Hygienic Practices:DO

NOT GET IN EYES. AVOID BREATHING VAPOR OR

MIST. AVOID CONTACT WITH SKIN AND CLOTHING.

Supplemental Safety and Health

NOTE TO PHYSICIAN: IF MORE THAN 2.0 ML PER KG INGESTED AND VOMITING HAS
NOT OCCURRED, INDUCE EMESIS WITH SUPERVISION. KEEP VICTIM'S HEAD
BELOW HIPS TO PREVENT ASPIRATION. IF SYMPTOMS SUCH AS LOSS OF G AG
REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS,
CONSIDER GASTRIC LAVAGE USING A CUFFED ENDOTRACHEAL TUBE.

=====
Physical/Chemical Pr
operties
=====

HCC:V6

Boiling Pt:B.P. Text:NOT AVAILABLE

Melt/Freeze Pt:=-59.4C, -75.F

M.P/F.P Text:POUR POINT

Decomp Temp:Decomp Text:NONE PROVIDED BY MFR

Vapor Pres:NOT AVAILABLE

Vapor Density:NOT AVAILA

Spec Gravity:0.87 (H2O=1)

pH:NONE PROVIDED

Viscosity:9.6 CS @ 104 DEG F

Evaporation Rate & Reference:NOT AVAILABLE.

Solubility in Water:NEGLIGIBLE.

Appearance and Odor:CLEAR, AMBER LIQUID, FRUITY SMELL.

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

St

ability 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 DURING PYROLYSIS OR COMBUSTION. CARBON MONOXIDE AND OTHER ORGANIC COMPOUNDS MAY BE FORMED UPON COMBUSTION.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

Waste Disposal Metho

ds: IF THIS PRODUCT BECOMES A WASTE, IT WOULD NOT BE A HAZARDOUS WASTE PER RCRA (40 CFR 261). PLACE IN 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: PRODUCT IS CLASSIFIED AS AN ACUTE HEALTH HAZARD UNDER SARA TITLE , SECTION 311-312. I I I

Federal Regulatory Information: PRODUCT CONTAINS ISOPROPYL ALCOHOL (