

ROYAL LUBRICANTS COMPANY INC. -- ROYCO 500 -- 9150-01-476-1074

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

Product ID:ROYCO 500  
MSDS Date:12/02/1999  
FSC:9150  
NIIN:01-476-1074  
Status Code:A  
MSDS Number: CLCXQ  
=== 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:973-887-7411/7410  
Emergency Phone Num:  
973-887-7411  
Resp. Party Other MSDS Num.:740,059-2  
Preparer's Name:NOT PROVIDED  
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:SP0450-01-M-LF54  
CAGE:07950

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

Ingred Name:PENTAERYTHRITOL ESTERS  
CAS:68424-31-7  
> Wt:95.  
Other REC Limits:NOT PRO

VIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED

Ingred Name:TRICRESYL PHOSPHATE (MIXED ISOMERS)  
CAS:1330-78-5  
RTECS #:TD0175000  
&lt; Wt:2.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.1 MG/M3

Ingred Name:PHENYL-ALPHA-NAPHTHYLAMINE  
CAS:90-30-2  
RTECS #:QM4500000  
&lt; Wt:2.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED

Ingred Name:OTHER MINOR ADDITIVES  
&lt; Wt:1.  
Other REC Limits:NOT PROVIDED  
OSHA PEL:NOT PROVIDED  
ACGIH TLV:NOT PROVIDED

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

LD50 LC50 Mixture:NOT PROVIDED  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYE: BASED ON COMPONENT INFORMATION,  
PRODUCT IS EXPECTED TO BE NO MORE THAN MILDLY IRRITATING TO THE  
EYES. SKIN: BASED ON COMPONENT INFORMATION, PRODUCT IS EXPECTED TO  
BE NO MORE THAN MILDLY IRRITATING TO SKIN. PROLONGED AND/OR  
REPEATED SKIN CONTACT MAY RESULT IN ABSORPTION OF COMPONENT 2 WHICH  
COULD  
LEAD TO DELAYED NEUROTOXICITY. INHALTION: VAPORS (GENERATED  
AT HIGH TEMPERATURES ONLY) OR OIL MIST MAY BE MILDLY IRRITATING TO  
NOSE, THROAT, AND RESPIRATORY TRACT. BASED ON COMPONENT 2,  
INHALATION MAY LEAD TO DELAYED NEUROTOXICITY. INGESTION: BASED ON  
THE PRESENCE OF COMPONENT 2, THIS PRODUCT MAY BE TOXIC IF  
SWALLOWED.  
Explanation of Carcinogenicity:THIS PRODUCT DOES NOT CONTAIN ANY  
CARCINOGEN AS LISTED BY IARC, NTP, OR OSHA.  
Effects of Overexposure:IRRITATION AS NOTED A

BOVE. DELAYED

NEUROTOXICITY MAY BE EVIDENCED BY NUMBNESS AND TINGLING OF THE HANDS AND FEET. WEAKNESS AND CRAMPS, AND AN UNSTEADY GAIT.

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

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

First Aid:EYE: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: WIPE EXCESS FROM SKIN. WASH SKIN WITH

SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

INHALATION: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION. INGESTION: DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. OTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30CC (2 TABLESPOONS) SYRUP OF IPECAC. IF IPECAC IS UNAVAILABLE, TOUCH BACK OF VICTIM'S THROAT. KEEP VICTIM'S HEAD BELOW HIPS WHILE VOMITING. GET MEDICAL ATTENTION.

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

Flash Point Method:COC

Flash Point:=-254.4C, 490.F

Lower Limits:N/AV

Upper Limits:N/AV

Extinguishing Media:USE WATER FOG, FOAM, DRY CHEMICAL OR CO2.

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 EXPOSE CONTAINERS WITH WATER.

Unusual Fire/Explosion Hazard:NOT PROVIDED

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

Spill Release Procedures:MAY BURN ALTHOUGH NOT READILY IGNITABLE. USE CAUTIOUS JUDGEMENT WHEN CLEANING UP LARGE SPILLS. LARGE SPILLS: WEAR RESPIRATOR AND PROTECTIVE CLOTHING AS APPROPRIATE. SHUT OFF SOURCE OF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSEL

ELS. SOAK UP RESIDUE

WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL.

DISPOSE OF PROPERLY. FLUSH AREA.

Neutralizing Agent:NOT RELEVANT

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===== 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 CONTACT WITH SKIN AND EYES. MINIMIZE THE INHALATION OF VAPORS AND OIL MISTS. LAUNDRY CONTAMINATED CLOTHING

BEFORE REUSE. CONTAMINATED LEATHER ARTICLES INCLUDING SHOES CANNOT BE DECONTAMINATED AND SHOULD BE DESTROYED TO PREVENT REUSE.

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===== 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 AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AIR -PURIFYING RESPIRATOR FOR ORGANIC VAPORS AND P

ARTICULATES.

Ventilation:NOT PROVIDED

Protective Gloves:CHEMICAL RESISTANT

Eye Protection:SAFETY GLASSES OR GOGGLES AS APPROPRIATE

Other Protective Equipment:WEAR CHEMICAL RESISTANT GLOVES AND OTHER CLOTHING AS REQUIRED TO MINIMIZE CONTACT.

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health

AVOID CONTACT WITH EYES. ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT.

N/D = NOT DETERMINED. N/E = NOT ESTABLISHED.

ED.

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

HCC:V6

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:NOT AVAILABLE

Melt/Freeze Pt:=-62.2C, -80.F

M.P/F.P Text:POUR POINT

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:NOT AVAILABLE

Vapor Density:N/AV

Spec Gravity:1.0 (EST)

Viscosity:28.5 CST @ 100F

Evaporation Rate & Reference:NOT AVAILABLE

Solubility in Water:NEGLIGIBLE

Appearance and Odor:LIGHT TAN SYNTHETIC FLUID

Percent Volatiles by Volume:NOT PROVIDED

Cor

rosion Rate:NOT PROVIDED

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

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:A COMPLEX MIXTURE OF AIRBORNE SOLID, LIQUID PARTICULATES AND GASES EVOLVE WHEN MATERIAL UNDERGOES PYROLYSIS/COMBUSTION. CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED UPON COMBUSTIO

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

Toxicological Information:ACUTE ORAL LD50 FOR INGREDIENT # 1: > 5 G/KG (RATS); FOR #2 >4.6 G/KG (RAT); FOR #3 1.63 G/KG (RAT). ACUTE DERMAL LD50 FOR #2 > 4.6 G/KG (RABBIT). COMPONENT 4 IS NOT HAZARDOUS UNDER OSHA HAZARD COMMUN ICATION (29 CFR 1910.1200).

===== Ecological Information =====

Ecological:NOT PROVIDED

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

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

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

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

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

SARA Title III Information:NOT PROVIDED

Federal Regulatory Information:UNDER EPA-CWA, THIS PRODUCT IS CONSIDERED AN OIL UNDER SECTION 31

1. SPILLS INTO OR LEADING TO

SURFACE WATERS THAT CAUSE A SHEEN MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-8802. THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES.

State Regulatory Information:NOT PROVIDED

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

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