View NSN Online: https://aerobasegroup.com/nsn/9150-01-054-6453

ROYAL LUBRICANTS COMPANY INC. -- 463 ROYCO (R) -- 9150-01-054-6453

Product ID:463 ROYCO (R) MSDS Date:01/12/1994 FSC:9150 NIIN:01-054-6453 Status Code:A MSDS Number: CLCVC === 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 Pho** ne Num:201-887-7411 Resp. Party Other MSDS Num.: 700,059-3 Preparer's Name: PRODUCT SAFETY, RLC 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 CAGE:07950

Ingred Name:PETROLEUM OILS Minumum % Wt:30. Maxumum % Wt:35. OSHA PEL:5 MG/M3 ACGIH TLV:5 MG/M3 ACGIH STEL:10 MG/M3

Ingred Name:POLYALPHAOLEFIN CAS:68649-11-6 Minumum % Wt:15. Maxumum % Wt:20.

Ingred Name:BARIUM COMPOUNDS (INSOLUBLE) Minumum % Wt:20. Maxumum % Wt:25. OSHA PEL:5 MG/M3 ACGIH TLV:5 MG/M3 ACGIH STEL:10 MG/M3

Ingred Name:1,1,1-TRICHLOROETHANE CAS:71-55-6 RTECS #:KJ2975000 Minumum % Wt:5. Maxumum % Wt:15. OSHA PEL:1900 MG/M3;350 PPM ACGIH TLV:1910 MG/M3;350 PPM ACGIH STEL:2460 MG/M3;450 PPM EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ozone Depleting Chemical:1

Ingred Name:TRICHLORO TRIFLUOROETHANE CAS:76-13-1 RTECS #:KJ4000000 Minumum % Wt:5. Maxumum % Wt:15. OSHA PEL:7600 MG/M3;1000 PPM ACGIH TLV:7670 MG/M3;1000 PPM ACGIH STEL:9590 MG/M3;1250 PPM Ozone Depleting Chemical:1

Ingred Name:DIMETHYLFORMAMIDE CAS:68-12-2 RTECS #:LQ2100000 Minumum % Wt:1. Maxumum % Wt:2. OSHA PEL:10 PPM ACGIH TLV:10 PPM EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:OTHER ADDITIVES Minumum % Wt:4. Maxumum % Wt:5.

LD50 LC50 Mi

xture:NOT AVAILABLE

Health Hazards Acute and Chronic:EYE: EXPECTED TO BE IRRITATING. SKIN: EXPECTED TO BE MODERATELY IRRITATING. PROLONGED OR REPEATED LIQUID CONTACT CAN RESULT IN DEFATTING & DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION & DERM ATITIS. THIS PRODUCT IS CONSIDERED MODERATELY TOXIC & MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN; MAY PRODUCE LIVER DAMAGE. INHALATION: INHALATION OF VAPORS OR MISTS WILL BE IRRITATING TO THE NOSE.IN GESTION: INGESTION OF PRODUCT MAY

RESULT IN VOMITING. ASPIRATION OF VOMITUS INTO THE LUNGS MAY RESULT IN ASPIRATION PNEUMONITIS.

- Explanation of Carcinogenicity:THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED DIMETHYLFORMAMIDE AS A POSSIBLE HUMAN CARCINOGEN GROUP 2B
- Effects of Overexposure: IRRITATION AS NOTED ABOVE. EARLY TO MODERATE CNS (CENTRAL NERVOUS SYSTEM) DEPRESSION MAY BE EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS AND NAUSEA: IN EXTREME CASES. UNCONCIOUSNESS.

RESPIRATORY DEPRES SION AND DEATH MAY OCCUR.

ASPIRATION PNEUMONITIS MAY BE EVIDENCED BY COUGHING. LABORED BREATHING AND CYANOSIS (BLUISH SKIN); IN SEVERE CASES DEATH MAY OCCUR. LIVER DAMAGE MAY BE EVIDENCED BY LOSS OF A PPETITE. JAUNDICE (YELLOWISH SKIN COLOR) AND SOMETIMES PAIN IN THE UPPER ABDOMEN ON THE RIGHT SIDE.

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

First Aid:EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYLIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING/SHOES AND WIPE EXCESS FROM SKIN. FLUSH SKI N WITH WATER. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION OCCURS. GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED. CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE DECONTA MINATED A ND SHOULD BEDESTROYED TO PREVENT REUSE.

Flash Point Method:COC Flash Point:=121.1C, 250.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 FLOAT AND CAN BE REIGNITED ON SURFACE OF WATER. Fire Fighting Procedures:MATERIAL WILL NOT BURN UNLESS PREHEATED. DO NOT ENTER CONFINED FIRE SPACE IWTHOUT 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:HYDROGEN CHLORIDE, A CORROSIVE AND TOXIC

GAS. MAY BE RELEASED UPON COMBUSTION.

Spill Release Procedures: MAY BURN ALTHOUGH NOT READILY IGNITABLE. USE CAUTIOUS JUDGMENT WHEN CLEANING UP LARGE SPILLS.

LARGE SPILLS: WEAR

RESPIRATOR AND PROTECTIVE CLOTHING AS APPROPRIATE. SHUT OFF SOURCE OF LEAK IF SAFE TO D O SO. DIKE AND CONTAIN. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SNAD OR OTHER SUITABLE MATERIAL; DISPOSE OF PROPERLY.

Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER

Handling and Storage Precautions: AVOID EYE CONTACT. AVOID CONTA CT WITH

SKIN. DO NOT BREATHE VAPORS OR MISTS. CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, CAN CONTAIN HAZARDOUS PRODUCT RESIDUES. STORE IN A COOL, DRY PLACE WITH ADEQU ATE 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 CLOTHES BEFORE REUSE.

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

R

espiratory Protection: AVOID BREATHING VAPORS AND MISTS. 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 RESPIRATOR OR AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS AND PARTICULATES.

Ventilation:USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS.

Protective Gloves:WEAR GLOVES AND OTHER CLOTHING AS RQUIRED TO MINIMIZE CO

NTACT

Eye Protection:WEAR CHEMICAL GOGGLES IF THERE IS LIKELIHOOD OF CONTACT WITH EYES.

Other Protective Equipment:WEAR GLOVES AND OTHER CLOTHING AS RQUIRED TO MINIMIZE CONTACT. EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE FOR EMERGENCY USE.

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

Supplemental Safety and Health NO DATA PROVIDED BY M ANUFACTURER.

HCC:V6 Boiling Pt:B.P. Text:N/AV Melt/Freeze Pt:M.P/F.P Text:N/AV Vapor Pres:N/AV (MM HG) Vapor Density:N/AV(AIR=1 Spec Gravity:0.95 (H2O=1) Viscosity:11 (CST @ 100 DEG F) Evaporation Rate & amp; Reference:(N-BUTYL ACETATE =1) N/AV Solubility in Water:NEGLIGIBLE Appearance and Odor:CLOUDY BROWN FLUID WITH STRONG ODOR

Stability Indicator/Material s to Avoid:YES AVOID HEAT, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS Stability Condition to Avoid:NO DATA PROVIDED BY MANUFACTURER. Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS ARE HIGHLY DEPENDENT ON THE COMBUSTION CONDITONS. A COMPLEX MIXTURE OF AIRBORNE SOLID. LIQUID. Conditions to Avoid Polymerization:WILL NOT OCCUR

Toxicological Information:NO DATA PROVIDED BY MANUFACTURER.

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

Ecological:NO DATA PROVIDED BY MANUFACTURER.

Waste Disposal Methods:DISPOSE OF AS HAZARDOUS WASTE DOO5 BASED ON BARIUM CONTENT UNLESS EXTRACTION RESULTS ARE LESS THAN EPA LIMIT.

Transport Information:NOT REGULATED AS HAZARDOUS BY DOT.

 SARA Title III Information:NO DATA PROVIDED BY MANUFACTURER.
Federal Regulatory Information:THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE EPA/TSCA INVENTORY OF CHEMICAL SUBSTANCES. DUE TO THE PRESENCE OF 1,1,1-TRICHLOROETHANE, THIS PRODUCT IS SUBJECT TO EXPORT NOTIFICATION UNDER SECTION 1 2(B) OF TSCA.
State Regulatory Information:NO DATA PROVIDED BY MANUFACTURER.

Disclaimer (provided with this information

by the compiling agencies):

This information is formulated 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.