View NSN Online: https://aerobasegroup.com/nsn/9150-01-096-6497

## EXXON COMPANY USA -- 212334-02334, HYJET IV-A PLUS -- 9150-01-096-6497

Product ID:212334-02334, HYJET IV-A PLUS

MSDS Date:06/01/1999

FSC:9150

NIIN:01-096-6497 Status Code:A

MSDS Number: CKFNH === Responsible Party ===

Company Name: EXXON COMPANY USA

Box:2180

City:HOUSTON

State:TX

ZIP:77252-2810

Country:US

Info Phone Num:800-443-9966

Emergency Phone Num:713-656-3424

Preparer's Name: NOT PROVIDED. Chemtrec Ind/Phone: (800)424-9300

CAGE:0TS34

=== Contractor Identification ===
Company Name: EXXON COMPANY

Address:200 PARK AVE Box:City:FLORHAM PARK

State:NJ

ZIP:07932-1002

Country:US

Phone:9737655498

Contract Num:SP0450-00-M-C170

CAGE:1DKH2

Company Name: EXXON MOBIL LUBRICANTS AND PETROLEUM SPECIALTIES CO.

Address:3225 GALLOWS RD

Box:City:FAIRFAX

State:VA ZIP:22037 Country:US

Phone:703-846-4240

CAGE:0TS34

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

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Ingred Name:TRIBUTYL PHOSPHATE

CAS:126-73-8

RTECS #:TC7700000 Minumum % Wt:70.

Maxumum % Wt:80.

Other REC Limits: NOT PROVIDED.

OSHA PEL:5 MG/M3

ACGIH TLV:2.2 MG/M3;0.2 PPM

Ingred Name: AROMATIC PHOSPHATE

Minumum % Wt:10.

Maxumum % Wt:15.

Other REC Limits:NOT PROVIDED.

OSHA PEL:NOT PROVIDED. ACGIH TLV:NOT PROVIDED.

Ingred Name: POLYMER ADDITIVES

Minumum % Wt:5.

Maxumum % Wt:10.

Other REC Limits:NOT PROVIDED.

OSHA PEL:NOT PROVIDED.

ACGIH TLV:NOT PROVIDED.

Ingred Name: ALIPHATIC EPOXIDES

Minumum % Wt:5.

Maxumum % Wt:10.

Other REC Limits:NOT PROVIDED.

OSHA PEL:NOT PROVIDED.

ACGIH TLV:NOT PROVIDED.

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) > 5,000 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EFFECTS OF OVEREXPOSURE: PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE SKIN IRRITATION. REPEATED AND

PROLONGED OVEREXPO

SURE TO OIL MISTS MAY RESULT IN DROPLET

DEPOSITION, OIL GRANULOMA FORMATION, INFLA MMATION AND INCREASED INCIDENCE OF INFECTION. PROLONGED OR REPEATED CONTACT WITH THIS PRODUCT TENDS TO REMOVE SKIN OILS, POSSIBLY LEADING TO IRRITATION AND DERMATITIS. PRODUCT CONTACTING THE EYES WILL CAUSE EYE IRRITATION. PRODUCT HAS A LOW ORDER OF ACUTE ORAL AND DERMAL TOXICITY, BUT MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION OR VOMITING MAY CAUSE MILD TO SEVERE PULMONAR

Y INJURY AND

POSSIBLY DEATH.

Explanation of Carcinogenicity: IN ACCORDANCE WITH THE CURRENT OSHA COMMUNICATION STANDARD CRITERIA, THIS PRODUCT DOES NOT REQUIRE A CANCER HAZARD WARNING. THIS PRODUCT CONTAINS SYNTHETICALLY DERIVED MATERIALS, AND AS SUCH IS NOT CH ARACTERIZED BY CURRENT IARC CLASSIFICATION CRITERIA FOR OILS.

Effects of Overexposure:PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT WITH THIS PRODUCT **TENDS TO REMOV** 

E SKIN OILS, POSSIBLY LEADING TO IRRITATION AND DERMATITIS. PRODUCT CONTACTI NG THE EYES WILL CAUSE EYE IRRITATION. PRODUCT HAS A LOW ORDER OF ACUTE ORAL AND DERMAL TOXICITY, BUT MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION OR VOMITING MAY CAUSE MILD TO SEVERE PULM ONARY INJURY AND POSSIBLY DEATH.

Medical Cond Aggravated by Exposure: NONE RECOGNIZED.

First Aid:EYE CONTACT: IF SPLASHED INTO THE E YES. FLUSH WITH CLEAR

WATER FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS, CALL PHYSICIAN. SKIN: IN CASE OF CONTACT, WASH WITH SOAP AND WATER. IF INJECTED INTO/UNDER SKIN, REGARDLESS OF THE APPEARANCE OR ITS SIZE, CONTACT PHYSICIAN IMMEDIATELY. INHALATION: VAPOR PRESSURE IS LOW AND INHALATION NORMALLY IS NOT A PROBLEM. IF OVERCOME BY VAPOR F ROM HOT PRODUCT, IMMEDIATELY REMOVE FROM EXPOSURE AND CALL A PHYSICIAN. IF BREATHING IS IRREGULAR/HAS

STOPPED. START RESUSCITATION, ADMINISTER OXYGEN IF AVAILABLE. INGESTION: IF INGESTED, DO NOT INDUC E VOMITING; CALL PHYSICIAN IMMEDIATELY.

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

Flash Point Method:COC Flash Point:=177.8C, 352.F **MINIMUM** 

Autoignition Temp:=407.8C, 766.F

Lower Limits: NOT AVAILABL Upper Limits:NOT AVAILABL

Extinguishing Media: FOAM, WATER SPRAY (FOG), DRY CHEMICAL, CARBON DIOXIDE AND VAPORIZING LIQUID TYPE EXTINGUISHING AGENTS MAY ALL BE

	SUITABLE FOR EXTINGUISHING FIRES INVOLVING THIS TYPE OF PRODUCT.
F	Fire Fighting Procedures: USE WATER TO KEEP FIRE EXPOSED CONTAINERS
	COOL. IF A LEAK/SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE
	THE VAPORS AND TO PROVIDE PROTECTION FOR PERSONS ATTEMPTING TO STOP
	A LEAK. WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY. USE
	SUPPLIED-AIR BREATHING EQUIPMENT FOR ENCLOSED/CONFINED SPACES OR AS
	OTHERWISE NEEDED.

Unusual Fire/Explosion Hazard:NOT PROVIDED.

======= A	
ccidental Release Measures	===========

Spill Release Procedures:RECOVER FREE PRODUCT. ADD SAND, EARTH OR OTHER SUITABLE ABSORBENT TO SPILL AREA. MINIMIZE BREATHING VAPORS. MINIMIZE SKIN CONTACT. OPEN ALL WINDOWS AND DOORS. KEEP PRODUCT OUT OF SEWERS AND WATERCOURS ES BY DIKING OR IMPOUNDING. ADVISE AUTHORITIES IF PRODUCT HAS ENTERED OR MAY ENTER SEWERS, WATERCOURSES, OR EXTENSIVE LAND AREAS. ASSURE CONFORMITY WITH APPLICABLE GOVERNMENTAL REGULATIONS.

Neutralizing Agent:NOT RELEVANT.

========== Handling and Storage =============================

Handling and Storage Precautions: KEEP CONTAINER CLOSED WHEN NOT IN USE. DO NOT STORE NEAR HEAT, SPARKS, FLAME OR STRONG OXIDANTS. USE PRODUCT WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY, AND OPEN FLAME.

Other Precautions:EMPTY CONTAINERS RETAIN PRODUCT RESIDUES (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND O

R EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

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

Respiratory Protection: USE SUPPLIED-AIR RESPIRATORY PROTECTION IN CONFINED OR ENCLOSED SPACES, IF NEEDED.

Ventilation:USE LOCAL EXHAUST, IF NECESSARY. PROVIDE VENTILATION SUFFICIENT TO PREVENT EXCEEDING RECOMMENDED EXPOSURE LIMIT OR BUILDUP OF EXPLOSIVE CONCENTRATIO

**NS OF VAPOR** 

Protective Gloves:USE CHEMICAL RESISTANT GLOVES TO AVOID PROLONGED OR REPEATED SKIN CONTACT.

Eye Protection:USE SPLASH GOGGLES OR FACE SHIELD WHEN EYE CONTACT MAY OCCUR.

Other Protective Equipment: USE CHEMICAL RESISTANT APRON OR OTHER IMPERVIOUS CLOTHING, IF NEEDED, TO PREVENT SKIN CONTACT.

Work Hygienic Practices:TO PREVENT FIRE OR EXPLOSION RISK FROM STATIC ACCUMULATION AND DISCHARGE, EFFECTVELY BOND AND/OR GROUND PRODUCT TRANSFER SYSTEM IN ACCORDANCE WITH THE N

ATIONAL FIRE PROTECTION

ASSOCIATION PUBLICATIONS.

Supplemental Safety and Health

MINIMIZE BREATHING VAPOR, MIST OR FUMES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. REMOVE CONTAMINATED CLOTHING AND LAUNDER OR DRY-CLEAN BEFORE REUSE.

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

HCC:V6

NRC/State Lic Num:NOT RELEVANT.

Boiling Pt:=287.8C, 550.F B.P. Text:APPROXIMATELY Melt/Freeze Pt:=-56.5C, -70.F M.P/F.P Text:POUR POINT

Decomp Temp:Decomp Text:NOT PROVIDED.

Vapor Pres:0.5 @ 200F Spec Gravity:0.995 pH:NOT RELEVANT.

Viscosity:10.33 CST @ 100F

Evaporation Rate & DATA Reference: NO DATA

Solubility in Water: NEGLIGIBLE

Appearance and Odor:CLEAR PURPLE LIQUID, SWEET ODOR

Percent Volatiles by Volume: NEGLIGIBLE

Corrosion Rate: NOT PROVIDED.

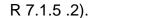
======== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH STRONG OXIDANTS SUCH AS LIQUID CHLORINE, CONCENTRATED OXYGEN, SODIUM HYPOCHLORITE, CAL

CIUM HYPOCHLORITE, NITRATES, PEROXIDES, ETC., AS THIS PRESENT A SERIOUS EXPLOSION HAZARD. Stability Condition to Avoid:WILL NOT REACT WITH WATER. Hazardous Decomposition Products:FUMES, SMOKE, CARBON MONOXIDE, SULFUR OXIDES, NITROGEN OXIDES, PHOSPHORUS OXIDES, ALDEHYDES AND OTHER DECOMPOSITION PRODUCTS, IN THE CASE OF INCOMPLETE COMBUSTION.	
========= Toxicological Information ==========	
Toxicological Information:THIS PRODUCT, AS MANUFACTURED BY EXXON, DOES	
NOT CONTAIN POLYCHLORINATED BIPHENYLS (PCB'S). ACUTE DERMAL LD50 (RABBIT) GREATER THAN 3.16 G/KG. EXPOSURE LIMIT FOR TOTAL PRODUCT 5 MG/M3 FOR OIL MIST (AE ROSOL) FOR AN 8-HOUR WORKDAY. 3 MG/M3 FOR TRIPHENYL PHOSPHATE FOR AN 8-HOUR WORKDAY. IN A LONG TERM FEEDING STUDY IN MICE TRIBUTYL PHOSPHATE CAUSED AN INCREASE INCIDENCE OF BENIGN LIVER TUMORS IN MALE CD-1 MICE (3500 PPM ONLY, NOEL = 1000 PPM) WHICH WAS ACCOMPANIED BY LIVER ENLARGEMENT. IN MALE AND FEMALE CD RA TS, A CHRONIC FEEDING STUDY RESULTED IN BENIGN AND MALIGNANT TUMORS OF THE URINARY BLADD ER.	
========== Ecological Information =============	
Ecological:MAY BE TOXIC TO AQUATIC ORGANISMS.	
======== Disposal Considerations ===========	
Waste Disposal Methods:DRUMS SHOULD BE RETURNED TO A DRUM CONDITIONER. ALL OTHER CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS.	
======= MSDS Transport Information ===========	

Transport Information:U.S. DOT HAZARDOUS MATERIAL SHIPPING DESCRIPTION: TRANSPORTED BY HIGHWAY, RAIL OR AIR (49 CFR 171-180) BULK PACKAGINGS (CAPACITY GREATER THAN 119 U.S. GALLONS): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI QUID, N.O.S. (TRIARYL PHOSPHATES, ISOPROPYLATED), 9, UN 3082, III, MARINE POLLUTANT. NON-BULK PACKAGINGS (CAPACITY LESS THAN OR EQUAL TO 119 U.S. GALLONS) NOT REGULATED (49 CFR 171-180, IATA DG



TRANSPORTED BY MARINE VESSEL: BULK AND NON-BULK PACKAGINGS (IMDG 7.2.1): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIARYL PHOSPHATES, ISOPROPYLATED), 9, UN 3082, III, MARINE POLLUTANT.

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

SARA Title III Information:TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA SECTION 313): NO TOXIC CHEMICAL IS PRESENT GREATER THAN 1% OR 0.1% (CARCINOGEN). TOXIC CHEMICAL R

ELEASE REPORTING, EPA REGULATION 40 C FR 370 (SARA SECTION 311-312): EPA HAZARD CLASSIFICATION CODES: ACUTE, CHRONIC. Federal Regulatory Information:TOXIC SUBSTANCE CONTROL ACT: THIS PRODUCT CONTAINS THE FOLLOWING TSCA 12B REPORTABLE CHEMICAL SUBSTANCE (S): TRIBUTYL PHOSPHATE CAS # 126-73-8. State Regulatory Information:NOT PROVIDED.

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