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EXXON COMPANY USA, DIV OF EXXON CORP -- COOLANOL 45R DIELECTRIC HEAT TRANSFER

FLUID -- 9160-00-237-4777

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

Product ID:COOLANOL 45R DIELECTRIC HEAT TRANSFER FLUID

MSDS Date:06/01/1999

FSC:9160

NIIN:00-237-4777 Status Code:A

MSDS Number: CKYHN === Responsible Party ===

Company Name: EXXON COMPANY USA, DIV OF EXXON CORP

Box:2180

City:HOUSTON

State:TX

ZIP:77252-2180

Cou ntry:US

Info Phone Num:800-443-9966

Emergency Phone Num:MED:713-656-3424

Resp. Party Other MSDS Num.:PROD CODE: 212344

Chemtrec Ind/Phone:(800)424-9300

CAGE:0TS34

=== Contractor Identification ===

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

Contract Num:SP056000MP909

CAGE:0TS34

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

Ingred Name: ORGANOSILICATE ESTER (MIXT

URE) > Wt:85.

Ingred Name:POLYMER ADDITIVES (MIXTURE)

Minumum % Wt:5. Maxumum % Wt:10.

Ingred Name: ALIPHATIC POLYESTER (MIXTURE)

Minumum % Wt:5. Maxumum % Wt:10.

Ingred Name: COOLANOL 45R (TOTAL PRODUCT)

= Wt:100. Code:F

OSHA PEL:5 MG/M3 OIL MIST

OSHA STEL:10 MG/M3

ACGIH TLV:5 MG/M3 OIL MIST

ACGIH STEL:10 MG/M3

Ingred Name:2-ETHYLHEXANOL

utes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:EYE CONTACT: MAY CAUSE IRRITATION. SKIN CONTACT: PRODUCT HAS A LOW ORDER OF DERMAL TOXICITY. [DERMAL (RABBIT) LD50 >3.16 G/KG]. PROLONGED OR REPEATED CONTACT TENDS TO REMOVE SKIN OILS, POSSIBLY LEADIN G TO IRRITATION AND DERMATITIS. PRODUCT NOT A CORROSIVE NOR AN IRRITANT BY OSHA CRITERIA. INHALATION:OVEREXPOSURE TO OIL MIST MAY RESULT IN DROPLET DEPOSITION, OIL GRANULOMA, INFLAMATION

AND INCREASED INCIDENCE OF

INFECTION. MINUTE AMOUNTS ASPIRATED INTO LUNGS DURING INGESTION OR VOMITING MAY CAUSE MILD TO SEVERE PULMONARY INJURY AND POSSIBLY DEATH. INGESTION: PRODUCT HAS A LOW ORDER OF ACUTE ORAL TOXICITY [ORAL (RAT) LD50 >5 G/KG].

Explanation of Carcinogenicity: IN ACCORDANCE WITH THE CURRENT OSHA HAZARD COMMUNICATION STANDARD CRITERIA, THIS PRODUCT DOES NOT REQUIRE A CANCER HAZARD WARNING. THIS PRODUCT CONTAINS SYNTHETICALLY DERIVED MATERIALS, AND

AS SUCH IS NOT CHARACTERIZED

BY CURRENT IARC CLASSIFICATION CRITERIA FOR OILS.

Effects of Overexposure: EYES: IRRITATION. SKIN: DEFATTING, IRRITATION, AND DERMATITIS. INHALATION: MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION OR VOMITING MAY CAUSE MILD TO SEVER PULMONARY INJURY AND POSSIBLY DE ATH.

Medical Cond Aggravated by Exposure: NONE RECOGNIZED.

First Aid:EYE CONTACT: FLUSH WITH CLEAR WATER FOR 15 MINUTES OR UNTIL

IRRITATION SUBSIDES. IF IRRITATION PERSISTS, CALL PHYSICIAN. SKIN: REMOVE CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WATER. LAUNDER C LOTHING BEFORE REUSE. HIGH PRESSURE INJECTION: GET IMMEDIATE MEDICAL ATTENTION. INHALATION: IF OVERCOME BY VAPOR FROM HOT PRODUCT, MOVE TO FRESH AIR. IF BREATHING IRREGULAR OR STOPPED, START RESUSCIT ATION; ADMINISTER OXYGEN. GET MEDICAL ATTENTION. IF OVEREXPOSED TO OIL MIST, MOVE TO FRESH AIR UNTIL EXCESSIV **EOIL**

MIST SUBSIDES. INGESTION: DO NOT INDUCE VOMITING; CALL A PHYSICIAN IMMEDIATELY.

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

Flash Point Method:COC Flash Point:=187.8C, 370.F ASTM D 92 Autoignition Temp:>262.8C, 505.F

Autoignition Temp Text: E 659

Lower Limits: NO DATA.

Upper Limits:NO DATA.

Extinguishing Media: FOAM, WATER SPRAY (FOG), DRY CHEMICAL, CARBON DIOXIDE, AND VAPORIZING LIQUID TYPE EXTINGUISHING AGENTS ALL SUITABLE FOR EXTINGUISHING FIRES I

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- Fire Fighting Procedures:USE WATER SPRAY, DRY CHEMICAL, FOAM, OR CARBON DIOXIDE TO EXTINGUISH FIRE. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL. IF LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE VAPORS AND PRO VIDE PROTECTION FOR PERSONS ATTEMPTING TO STOP A LEAK. WATER SPRAY USED TO FLUSH SPILLS AWAY FROM EXPOSURES.
- Unusual Fire/Explosion Hazard:MINIMIZE BREATHING OF GASES, VAPOR, FUMES OR DECOMPOSITION PRODUCTS. USE SUPPLIE
- D-AIR BREATHING EQUIPMENT FOR
 - ENCLOSED OR CONFINED SPACES OR AS OTHERWISE NEEDED. FUMES, SMOKE, CARBON MONOXIDE, SULFUR OXIDES, ALDEHYDES, SILICATE ESTERS AND OTHER DECOMPOSITION PRODUCTS, IN THE CASE OF INCOMPLETE COMBUSTION.

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	Application Delega	เอต เพิ่มผลอนเพื่อ	

- Spill Release Procedures:RECOVER FREE PRODUCT. ADD SAND, EARTH, OR OTHER SUITABLE ABSORBENT TO SPILL AREA. MINIMIZE SKIN CONTACT. KEEP PRODUCT OUT OF SEWERS AND WATERCOURSES BY DIKIN
- G OR IMPOUNDING.
 - ADVISE AUTHORITIES IF PROD UCT HAS ENTERED OR MAY ENTER SEWERS, WATERCOURSES, OR EXTENSIVE LAND AREAS. ASSURE CONFORMITY WITH APPLICABLE GOVERNMENTAL REGULATIONS.

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- Handling and Storage Precautions:HANDLING: USE PRODUCT WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY, AND OPEN FLAMES. EMPTY CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT ATT
- EMPT TO REFILL OR CLEAN CONTAINERS SINCE RESIDUE IS DIFFICULT TO REMOVE.
- Other Precautions:EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, F LAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

=========	Exposure (Controls/Pers	sonal Protecti	ion ====	======
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Respirat

- ory Protection: USE SUPPLIED-AIR RESPIRATORY PROTECTION IN CONFINED OR ENCLOSED SPACES, IF NEEDED.
- Ventilation: USE LOCAL EXHAUST TO CAPTURE VAPOR, MISTS OR FUMES. PROVIDE ADEQUATE VENTILATION TO PREVENT EXCEEDING PEL AND TLV OR BUILDUP OF EXPLOSIVE CONCENTRATIONS.
- 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-RESIS

TANT APRON OR OTHER

IMPERVIOUS CLOTHING, IF NEEDED, TO AVOID CONTAMINATING REGULAR CLOTHING, WHICH COULD RESULT IN PROLONGED OR REPEATED SKIN CONTACT. CLEAN ALL CONTAMINATED CLOTHING.

Work Hygienic Practices:MINIMIZE BREATHING VAPOR, MIST OR FUMES. AVOID PROLONGED OR REPEATED SKIN CONTACT. CLEANSE SKIN AFTER CONTACT, BEFORE BREAKS AND MEALS, AND AT END OF WORK PERIOD. NO SMOKING, OR USE OF IGNITION SOURCES.

Supplemental Safety and Health

TO PREVENT FIRE OR EXPLOSION RISK

FROM STATIC ACCUMULATION AND

DISCHARGE, EFFECTIVELY BOND AND/OR GROUND PRODUCT TRANSFER SYSTEM IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION PUBLICATIONS.

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

HCC:V5

Boiling Pt:=340.C, 644.F

Melt/Freeze Pt:M.P/F.P Text:NOT AVAILABLE Decomp Temp:Decomp Text:NOT AVAILABLE

Vapor Pres: