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CHEMICAL PRODUCT AND COMPANY INFORMATION

REVISION DATE: 07/24/1995
UN NUMBER- N/A

PRIMARY APPLICATION- POWER STEERING FLUID

MANUFACTURER- SUN COMPANY, INC.
TEN PENN CENTER
1801 MARKET STREET
PHILADELPHIA PA 19103-1699

SYNONYMS.....: NOT AVAILABLE
CAS REGISTRY NO: SEE SECT. 2
CAS NAME.....: NO CLASSIFICATION - MIXTURE
CHEMICAL FAMILY: BLEND
INFORMATION

SUPPLIER... MARIA DAYRIT
PHONE.....: (215) 246-8201

EMERGENCY PHONE NUMBERS (AFTER NORMAL BUSINESS HOURS)
SUN CO.. 1-800-964-8861
CHEMTREC. 1-800-424-9300

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Table with columns: COMPONENT/CAS NO., LO%, HI%, OSHA (TWA, STEL), EXPOSURE GUIDELINES (ACGIH, SUN/MFR), UNIT. Includes sub-header LIMITS FOR THE PRODUCT: NO SPECIFIC LIMIT.

Table listing ingredients and their limits: SEVERELY HYDROTREATED LIGHT NAPHTHENIC PETROLEUM OIL (20.00-30.00%), SPENT LUBE OIL (60.00-70.00%), PHENYL PHOSPHATE (.00-1.00%), POLYMER OF STYRENE & MALEIC C4-C20 DIALKYL ESTERS (.00-5.00%), POLYBUTENYL SUCCINIMIDE/AMIDE BORATE (.00-1.00%), ZINC DIALKYL DITHIOPHOSPHATE (.00-1.00%), TALL OIL FATTY ACID (.00-1.00%).

ADDITIONAL EXPOSURE LIMITS ----- GOVERNMENT REGULATION
OTHER LIMIT- SEE SECTION 2

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3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW -----

NOT EXPECTED TO CAUSE A SEVERE EMERGENCY HAZARD.

APPEARANCE-- AMBER LIQUID ODOR-- LUBE OIL

POTENTIAL HEALTH EFFECTS -----

PRIMARY ROUTES OF ENTRY- INHALATION() SKIN(X) EYE() INGESTION()

INHALATION -----

NO ACUTE EFFECTS EXPECTED.

SKIN -----

MAY CAUSE MILD IRRITATION WITH PROLONGED OR REPEATED CONTACT.

EYE -----

NO EYE EFFECT EXPECTED.

INGESTION -----

PRACTICALLY NON-TOXIC (LD50 > 15G/KG).

CARCINOGEN LISTED BY-IARC(NO) NTP(NO) OSHA(NO) ACGIH(NO) OTHER(NO)

PRE-EXISTING MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE- SKIN DISORDERS.

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4. FIRST AID MEASURES

INHALATION -----

MOVE PERSON TO FRESH AIR.

SKIN -----

WASH WITH SOAP AND WATER UNTIL NO ODOR REMAINS. IF REDNESS OR SWELLING DEVELOPS, OBTAIN MEDICAL ASSISTANCE. IMMEDIATELY REMOVE SOAKED CLOTHING. WASH CLOTHING BEFORE REUSE.

EYE -----

FLUSH WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, OBTAIN MEDICAL ASSISTANCE.

INGESTION -----

PRACTICALLY NON-TOXIC -- INDUCTION OF VOMITING NOT REQUIRED. OBTAIN EMERGENCY MEDICAL ATTENTION. SMALL AMOUNTS WHICH ACCIDENTALLY ENTER MOUTH SHOULD BE RINSED OUT UNTIL TASTE OF IT IS GONE.

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5. FIRE FIGHTING MEASURES

FLASH POINT: >365 TYPICAL COC (DEG. F); >185 TYPICAL COC (DEG. C)
AUTOIGNITION TEMP.: NOT DETERMINED (DEG. F); NOT DETERMINED (DEG. C)

---FLAMMABLE LIMITS IN AIR---

LOWER EXPLOSIVE LIMIT (LEL): NOT DETERMINED % VOLUME
UPPER EXPLOSIVE LIMIT (UEL): NOT DETERMINED % VOLUME

FIRE AND EXPLOSION HAZARDS -----
CAN BE MADE TO BURN (FLASH POINT GREATER THAN 200F).

EXTINGUISHING-MEDIA -----
WATER SPRAY. REGULAR FOAM. DRY CHEMICAL. CARBON DIOXIDE.

SPECIAL FIRE FIGHTING INSTRUCTIONS -----
USE WATER SPRAY. COOL TANK/ CONTAINER. WEAR SELF-CONTAINED BREATHING APPARATUS. WEAR STRUCTURAL FIREFIGHTERS PROTECTIVE CLOTHING.

NFPA/HMIS CLASSIFICATION

HEALTH - 1 / 1

FIRE - 1 / 1

REACTIVITY - 0 / 0

PERSONAL PROTECTION INDEX - X

HAZARD RATING

0=LEAST 1=SLIGHT

2=MODERATE 3=HIGH

4=EXTREME

SPECIFIC HAZARD: NONE KNOWN

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6. ACCIDENTAL RELEASE MEASURES

CONTAIN SPILL. USE PERSONAL PROTECTIVE EQUIPMENT STATED IN SECTION 8. ADVISE EPA; STATE AGENCY IF REQUIRED. ABSORB ON INERT MATERIAL. SHOVEL, SWEEP OR VACUUM SPILL.

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HANDLING AND STORAGE

KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINER TIGHTLY CLOSED. NFPA CLASS IIIB STORAGE. AVOID PROLONGED BREATHING OF MIST OR VAPOR. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WASH THOROUGHLY AFTER HANDLING.

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8. EXPOSURE CONTROL / PERSONAL PROTECTION

CONSULT WITH A HEALTH/SAFETY PROFESSIONAL FOR SPECIFIC SELECTION.

VENTILATION -----

VENTILATE AS NEEDED TO COMPLY WITH EXPOSURE LIMIT. LOCAL EXHAUST VENTILATION RECOMMENDED.

PERSONAL PROTECTIVE EQUIPMENT -----

EYE -----

SPLASH PROOF CHEMICAL GOGGLES OR FULL FACE SHIELD RECOMMENDED TO PROTECT AGAINST SPLASH OF PRODUCT.

GLOVES -----

PROTECTIVE GLOVES RECOMMENDED WHEN PROLONGED SKIN CONTACT CANNOT BE AVOIDED.

RESPIRATOR -----

CONCENTRATION-IN-AIR DETERMINES PROTECTION NEEDED. USE ONLY NIOSH CERTIFIED RESPIRATORY PROTECTION. RESPIRATORY PROTECTION USUALLY NOT NEEDED UNLESS PRODUCT IS HEATED OR MISTED.

OTHER -----

IF CONTACT IS UNAVOIDABLE, WEAR CHEMICAL RESISTANT CLOTHING. SAFETY SHOWER AND EYE WASH AVAILABILITY RECOMMENDED. LAUNDRY SOILED CLOTHES.

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9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT.....: > 425 (DEG. F) _____ > 218 (DEG. C)
 MELTING POINT.....: N/A (DEG. F) _____ N/A (DEG. C)
 SPECIFIC GRAVITY.....: 0.87 (WATER=1)
 PACKING DENSITY.....: N.D. (KG/M3)
 VAPOR PRESSURE.....: < 0.1 (MM HG @ 20 DEG C)
 VAPOR DENSITY.....: > 8 (AIR=1)
 SOLUBILITY IN WATER.: NEGLIGIBLE (% BY VOLUME)
 PH INFORMATION.....: N/A AT CONC. N/A G/L H2O
 % VOLATILES BY VOL.: NIL
 EVAPORATION RATE.....: < 0.1 (ETHYL ETHER=1)
 OCTANOL/WATER COEFF.: N.D.
 APPEARANCE.....: AMBER LIQUID
 ODOR.....: LUBE OIL
 ODOR THRESHOLD.....: N.D. (PPM)
 VISCOSITY.....: 149 SUS @ 100 DEG F ... 28.8 CST @ 40 DEG C
 MOLECULAR WEIGHT.....: N.D. (G/MOLE)

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10. STABILITY AND REACTIVITY

STABILITY -----
 STABLE.
 INCOMPATIBLE MATERIALS -----
 STRONG OXIDIZERS.
 HAZARDOUS DECOMPOSITION -----
 COMBUSTION WILL PRODUCE CARBON MONOXIDE, SULFUR OXIDES.
 POLYMERIZATION -----
 WILL NOT OCCUR.

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11. TOXICOLOGICAL INFORMATION

FOR THE PRODUCT -----
 INHALATION: OVEREXPOSURE TO MIST OR VAPORS MAY CAUSE EYE, NOSE, THROAT AND RESPIRATORY TRACT IRRITATION. SKIN: PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION AND DERMATITIS. EYE: CONTACT MAY CAUSE IRRITATION ORAL: LOW ACUTE TOXICITY. INGESTION MAY CAUSE GASTROINTESTINAL TRACT, NAUSEA, VOMITING.

SEVERELY HYDROTREATED LIGHT NAPHTHENIC PETROLEUM OIL (COMPONENT)
 INHALATION: OVEREXPOSURE MAY CAUSE EYE, NOSE, THROAT, & RESPIRATORY TRACT IRRITATION. SKIN: PROLONGED OR REPEATED CONTACT IS IRRITATING. EYE: MINIMALLY IRRITATING ON CONTACT. INGESTION: LOW ACUTE TOXICITY. HARMFUL OR FATAL IF SWALLOWED AND/OR VOMITING OCCURS BECAUSE IT CAN ENTER THE LUNGS AND CAUSE DAMAGE--PULMONARY ASPIRATION HAZARD.

SPENT LUBE OIL (COMPONENT)
 NO STATEMENT AVAILABLE

PHENYL PHOSPHATE (COMPONENT)

INHALATION: NO DATA. SKIN: MODERATELY TOXIC. IRRITANT. EYE: IRRITANT. ORAL: TOXIC IF SWALLOWED. MAY CAUSE NUMBNESS, MOTOR ACTIVITY CHANGES, WEAKNESS.

POLYMER OF STYRENE & MALEIC C4-C20 DIALKYL ESTERS (COMPONENT)

INHALATION: NO ACUTE EFFECTS EXPECTED. SKIN: PRACTICALLY NON-TOXIC IF ABSORBED; NO EFFECTS EXPECTED WITH PROLONGED AND REPEATED CONTACT. EYES: MINIMAL IRRITATION. ORAL: SLIGHTLY TOXIC.

POLYBUTENYL SUCCINIMIDE/AMIDE BORATE (COMPONENT)

NO DATA AVAILABLE FOR ALL ROUTES OF EXPOSURE.

ZINC DIALKYL DITHIOPHOSPHATE (COMPONENT)

INHALATION: TOXIC HYDROGEN SULFIDE IS GENERATED WHEN HEATED ABOVE 155 DEG F. THIS CAN CAUSE RESPIRATORY COLLAPSE, COMA, & DEATH. SKIN: PROLONGED OR REPEATED CONTACT MAY CAUSE MODERATE IRRITATION, REDNESS, DRYING, CRACKING, DERMATITIS. EYE: IRRITANT. ORAL: HARMFUL IF SWALLOWED.

TALL OIL FATTY ACID (COMPONENT)

NO DATA AVAILABLE FOR INHALATION, SKIN AND EYE CONTACT. ORAL: PRACTICALLY NON-TOXIC.

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12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY -----

NO DATA AVAILABLE.

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13. DISPOSAL CONSIDERATIONS

FOLLOW FEDERAL, STATE AND LOCAL REGULATIONS. DO NOT FLUSH TO DRAIN/ STORM SEWER. CONTRACT TO AUTHORIZED DISPOSAL SERVICE.

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14. TRANSPORTATION INFORMATION

DOT-

PROPER SHIPPING NAME- NOT REGULATED
HAZARD CLASS- NOT REGULATED
IDENTIFICATION NUMBER- NOT REGULATED
LABEL REQUIRED- NOT REGULATED

IMDG- PROPER SHIPPING NAME- NOT AVAILABLE

IATA- PROPER SHIPPING NAME- NOT AVAILABLE

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15. REGULATORY INFORMATION

SARA 302 THRESHOLD PLANNING QUANTITY. N/A

SARA 304 REPORTABLE QUANTITY N/A

SARA 311 CATEGORIES- IMMEDIATE (ACUTE) HEALTH EFFECTS.. N
DELAYED (CHRONIC) HEALTH EFFECTS.. N
FIRE HAZARD N
SUDDEN RELEASE OF PRESSURE HAZARD. N
REACTIVITY HAZARD N

WHEN A PRODUCT AND/OR COMPONENT IS LISTED BELOW, THE REGULATORY LIST ON WHICH IT APPEARS IS INDICATED.

SEVERELY HYDROTREATED LIGHT NAPHTHENIC PETROLEUM OIL - MA NJ PA 08 03 04
ZINC DIALKYL DITHIOPHOSPHATE - NJ 01

- 01=SARA 313 02=SARA 302/304 03=IARC CARCINOGEN
04=OSHA CARCINOGEN 05=ACGIH CARCINOGEN 06=NTP CARCINOGEN
07=CERCLA 302.4 08=WHMIS CONTROLLED PROD.
10=OTHER CARCINOGEN
PA=PENNSYLVANIA RTK NJ=NEW JERSEY RTK CA=CALIFORNIA PROP 65
MA=MASSACHUSETTS RTK MI=MICHIGAN 406 MN=MINNESOTA RTK
FL=FLORIDA RI=RHODE ISLAND IL=ILLINOIS
NY=NEW YORK WV=WEST VIRGINIA CT=CONNECTICUT
LA=LOUISIANA ME=MAINE OH=OHIO

THIS PRODUCT OR ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE U.S. TSCA INVENTORY.

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16. OTHER INFORMATION

NONE