(800) 424-9300



## MOBIL OIL CORPORATION MATERIAL SAFETY DATA BULLETIN

MOBIL OIL CORP. (609) 737-4411

CHEMICAL NAMES AND SYNONYMS: CHEMTREC:

PET. HYDROCARBONS AND ADDITIVES

USE OR DESCRIPTION: PRODUCT AND MSDS INFORMATION:

HYDRAULIC OIL (800) 662-4525

\*\*\*\*\*\*\*\* II. TYPICAL CHEMICAL AND PHYSICAL PROPERTIES \*\*\*\*\*\*\*\*\*

APPEARANCE: Amber Liquid ODOR: Mild PH: NA
VISCOSITY AT 100 F, SUS: 353.1 AT 40 C, CS: 68.0
VISCOSITY AT 210 F, SUS: 55.0 AT 100 C, CS: 8.5
FLASH POINT F(C): > 400(204) (ASTM D-92)

MELTING POINT F(C): NA POUR POINT F(C): -10(-23)

BOILING POINT F(C): > 600(316)

RELATIVE DENSITY, 15/4 C: 0.89 SOLUBILITY IN WATER: Negligible

VAPOR PRESSURE-mm Hg 20C: < .1

NA=Not Applicable NE=Not Established D=Decomposes FOR FURTHER INFORMATION, CONTACT YOUR LOCAL MARKETING OFFICE.

\*\*\*\*\*\*\*\*\* III. POTENTIALLY HAZARDOUS INGREDIENTS \*\*\*\*\*\*\*\*\*

None

SEE SECTIONS XII AND XIII FOR REGULATORY AND FURTHER COMPOSITIONAL DATA.

SOURCES: A=ACGIH-TLV, A\*=Suggested-TLV, M=Mobil, O=OSHA, S=Supplier NOTE: Limits shown for guidance only. Follow applicable regulations.

EYE CONTACT: Flush thoroughly with water. If irritation persists, call a physician.

SKIN CONTACT: Wash contact areas with soap and water. High pressure accidental injection through the skin requires immediate medical attention for possible incision, irrigation and/or debridement.

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem. However, if greater than 1/2 liter(pint) ingested, immediately give 1 to 2 glasses of water and call a physician, hospital emergency room or poison control center for assistance. Do not induce vomiting or give anything by mouth to an unconscious person.



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VI. FIRE AND EXPLOSION HAZARD DATA \*\*\*\*\*\*\*\*\*\*\*\*

FLASH POINT F(C): > 400(204) (ASTM D-92)

FLAMMABLE LIMITS. LEL: .6% UEL: 7.0%

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing.

Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. For fires in enclosed areas, firefighters must use self-contained breathing apparatus.

Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0

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STABILITY (Thermal, Light, etc.): Stable

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (Materials to Avoid): Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur.

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ENVIRONMENTAL IMPACT: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

WASTE MANAGEMENT: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.

RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.



- ORAL TOXICITY (RATS): Slightly toxic ---Based on testing of similar products and/or the components.
- DERMAL TOXICITY (RABBITS): Slightly toxic --- Based on testing of similar products and/or the components.
- INHALATION TOXICITY (RATS): Not applicable ---Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product.
- EYE IRRITATION (RABBITS): Expected to be non-irritating. ---Based on testing of similar products and/or the components.
- SKIN IRRITATION (RABBITS): Expected to be non-irritating. ---Based on testing of similar products and/or the components.
  ---SUBCHRONIC TOXICOLOGY (SUMMARY)---
- Severely solvent refined and severely hydrotreated mineral base oils have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---CHRONIC TOXICOLOGY (SUMMARY)---

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of

similar oils showed no evidence of carcinogenic effects.

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GOVERNMENTAL INVENTORY STATUS: All components registered in accordance

DOT:

Shipping Name: Not applicable Hazard Class: Not applicable

with TSCA and EINECS.

- US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.
- RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.
- U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".
- SARA (311/312 FORMERLY 302) REPORTABLE HAZARD CATEGORIES: None

This product contains no chemicals reportable under SARA (313) toxic release program.

THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE LISTS BELOW:



CHEMICAL NAME ZINC DITHIOPHOSPHATE (.70%)	CAS NUMBER	LIST CITATIONS 15
ZINC (ELEMENTAL ANALYSIS) (.09%) FATTY ACIDS, TALL-OIL, ZINC SALTS (.30%)	7440-66-6 61790-11-2	15 15

## --- KEY TO LIST CITATIONS ---

1 = OSHA Z, 2 = ACGIH, 3 = IARC, 4 = NTP, 7 = NFPA 49, 8 = NFPA 325M, 9 = DOT HMT, 10 = CA RTK, 11 = IL RTK, 12 = MA RTK, 13 = MN RTK, 14 = NJ RTK, 15 = MI 293, 16 = FL RTK, 17 = PA RTK, 18 = CA P65.

--- NTP, IARC, AND OSHA INCLUDE CARCINOGENIC LISTINGS ---

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

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  INGREDIENT DESCRIPTION PERCENT CAS NUMBER
CONTAINS ONE OR MORE OF THE FOLLOWING > 95.00
 BASE OILS:
  DISTILLATES (PETROLEUM), HYDROTREATED
    HEAVY PARAFFINIC
  DISTILLATES (PETROLEUM), SOLVENT-
                                                    64742-65-0
    DEWAXED HEAVY PARAFFINIC
MAY CONTAIN ONE OR MORE OF THE FOLLOWING
 ADDITIVE COMPONENTS:
                                                  68988-46-5
  PHOSPHORODITHIOIC ACID, MIXED 0,0-
                                     0.63
    BIS(ISO-BU AND ISOCTYL AND PENTYL)
      ESTERS, ZINC SALTS
  DISTILLATES (PETROLEUM), HYDROTREATED 0.18
                                                  64742-55-8
    LIGHT PARAFFINIC
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PREPARED BY: MOBIL OIL CORPORATION

ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT, PRINCETON, NJ FOR FURTHER INFORMATION, CONTACT:

MOBIL OIL CORPORATION, PRODUCT FORMULATION AND QUALITY CONTROL 3225 GALLOWS ROAD, FAIRFAX, VA 22037 (800) 227-0707 X3265