MOBIL OIL -- MOBIL VACTRA OIL NO. 2 - WAY OIL HARS MATERIAL SAFETY DATA SHEET Rotarty oil NSN: 9150000454317 Manufacturer's CAGE: 6G112 Part No. Indicator: A Part Number/Trade Name: MOBIL VACTRA OIL NO. 2 General Information Item Name: WAY OIL Company's Name: MOBIL OIL CORPORATION Company's Street: 3225 GALLOWS ROAD Company's City: FAIRFAX Company's State: VA Company's Zip Code: 22037 Company's Emerg Ph #: (800) 662-4525 Company's Info Ph #: (800) 662-4525 Record No. For Safety Entry: 004 Tot Safety Entries This Stk#: 007 Status: A Date MSDS Prepared: 29JUN94 Safety Data Review Date: 20DEC95 Preparer's Company: MOBIL OIL CORPORATION Preparer's St Or P. O. Box: 3225 GALLOWS ROAD Preparer's City: FAIRFAX Preparer's State: VA Preparer's Zip Code: 22037 MSDS Serial Number: BBLMQ Ingredients/Identity Information Proprietary: NO Ingredient: 9-OCTADEECEN-1-AMINE, (Z) (OLEYL AMINE) *95-4* Ingredient Sequence Number: 01 NIOSH (RTECS) Number: RG4130000 CAS Number: 112-90-3 Proprietary: NO Ingredient: ANIMAL FATTY OIL *95-4* Ingredient Sequence Number: 02 NIOSH (RTECS) Number: 1003765AF CAS Number: 8016-28-2 -----Ingredient: VOLATILE ORGANIC CONTENT: <4 (WT.%); (0.295 LBS/GAL) Ingredient Sequence Number: 03

Proprietary: NO

NIOSH (RTECS) Number: 9999999VO

CAS Number: 64741-88-4

Physical/Chemical Characteristics

Appearance And Odor: BROWN LIQUID W/MILD ODOR

Boiling Point: >600F

Vapor Pressure (MM Hg/70 F): <0.1 Solubility In Water: NEGLIGIBLE

Fire and Explosion Hazard Data

Flash Point: >350F Flash Point Method: COC

Lower Explosive Limit: 0.6 Upper Explosive Limit: 7 Extinguishing Media: CO2, FOAM, DRY CHEMICAL & WATER FOG. Special Fire Fighting Proc: WATER/FOAM MAY CAUSE PROTHING. USE WATER TO KEEP FIRE EXPOSED CONTAINERS COOL, WATER SPRAY MAY BE USED TO FLUSH SPILL FROM EXPOSURE. WEAR SCBA IN ENCLOSED AREA. Reactivity Data Stability: YES Cond To Avoid (Stability): EXTREME HEAT Materials To Avoid: STRONG OXIDIZERS Hazardous Decomp Products: PHOSPHORUS OXIDES, SULFUR OXIDES, & CO. Hazardous Poly Occur: NO Health Hazard Data LD50-LC50 Mixture: ORAL DL50(RATS): >2000 MG/KG Route Of Entry - Inhalation: NO Route Of Entry - Skin: NO Route Of Entry - Ingestion: NO Health Haz Acute And Chronic: PRACTICALLY NON-TOXIC, NO SIGNIFICANT EFFECTS EXPECTED. Carcinogenicity - NTP: NO Carcinogenicity - TARC: NO Carcinogenicity - OSHA; NO Explanation Carcinogenicity: NONE Signs/Symptoms Of Overexp: PRACTICALLY NON-TOXIC. NO SIGNIFICANT EFFECTS EXPECTED -Emergency/First Aid Proc: EYES: FLUSH THOROUGHLY W/WATER. SKIN: WASH W/SOAP & WATER. INHALATION: REMOVE FROM EXPOSURE. IF BREATHING HAS STOPPED, USE MOUTH TO MOUTH RESUSCITATION. OBTAIN MEDICAL ATTENTION IN ALL CASES. Precautions for Safe Handling and Use Steps If Matl Released/Spill: ABSORB ON FIRE RETARDANT TREATED SAWDUST, DIATOMACEOUS EARTH. SHOVEL UP & DISPOSE. Waste Disposal Method: PRODUCT IS SUITABLE FOR BURNING IN AN ENCLOSED, CONTROLLED BURNER FOR FUEL VALUE/DISPOSAL BY SUPERVISED INCINERATION. BURNING MAY BE LIMITED PURSUANT TO THE RCRA. DISPOSE OF AT AN APPROVED WASTE DISPOSAL FACILITY IAW/LOCAL, STATE & FEDERAL REGULATION Control Measures Respiratory Protection: NONE REQUIRED IF USED W/ADEQUATE VENTILATION Ventilation: USE IN WELL VENTILATED AREA. Protective Gloves: NO SPECIAL EQUIPMENT REQUIRED Eye Protection: NORMAL INDUSTRIAL PROTECTION EMPLOYED Work Hygienic Practices: GOOD PERSONAL HYGIENE PRACTICES SHOULD ALWAYS BE FOLLOWED .

Suppl. Safety & Health Data: FIRE PROC CONT'D: PREVENT RUNOFF FROM FIRE CONTROL/DILUTION FROM ENTERING STREAMS, SEWERS/DRINKING WATER SUPPLY.

Transportation Data

Disposal Data

Disposed Note Author Colors

Disposal Data Action Code: A Disposal Data Review Date: 90036 11:55AM DEC. 7. 2005

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Rec # For This Disp Entry: 01 Tot Disp Entries Per NSN: 001

Landfill Ban Item: YES

Disposal Supplemental Data: 150 E. 42ND/NEW YORK CITY, NY 10017. IN CASE OF ACCIDENTAL EXPOSURE OR DISCHARGE, CONSULT HEALTH AND SAFETY FILE FOR PRECAUTIONS.

1st EPA Haz Wst Name New: NOT REGULATED

1st EPA Haz Wst Char New: NOT REGULATED BY RCRA

HAAS AUTOMATION

1st EPA Acute Hazard New: NO

Label Data

Label Required: YES

Technical Review Date: 310CT90

Label Status: P

Common Name: MOBIL VACTRA OIL NO. 2

Chronic Hazard: NO Signal Word: CAUTION!

Acute Health Hazard-Slight: X

Contact Hazard-Slight: X Fire Hazard-Slight: X Reactivity Hazard-None: X

Special Hazard Precautions: COMBUSTIBLE.. CONTAINS REFINED PETROLEUM BASE AND/OR SYNTHETIC HYDROCARBON OIL WITH ADDITIVES. REPEATED/PROLONGED CONTACT MAY CAUSE IRRITATION OR OIL ACNE TO EYE/SKIN. INHALATION OF MIST MAY CAUSE RESPIRATORY TRACT IRRITATION, POSSIBLE PULMONARY EDEMA OR OTHER PROBLEMS. FLUSH WITH PLENTY OF WATER REMOVE AND LAUNDER CONTAMINATED CLOTHING; WASH SKIN WITH SOAP AND WATER AFTER EACH USE/HANDLING. AVOID SKIN CONTACT AND INHALATION OF MIST. GET MED HELP FOR ANY SYMPTOM. KEEP AWAY FROM HEAT/OPEN FLAMES. DO NOT CONTAMINATE WATERWAYS.ABSORB SPILL WITH AN ABSORBENT.

Protect Eye: Y Protect Skin: Y

Label Name: MOBIL OIL CORP Label Street: 150 E 42ND ST

Label City: NEW YORK

Label State: NY

Label Zip Code: 10017-5612

Label Country: US

Label Emergency Number: 212-883-4411

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MOBIL OIL CORPORATION MATERIAL SAFETY DATA BULLETIN

SUPPLIER:

24-HOUR EMERGENCY (CALL COLLECT):

MINORIE DIEGET

MOBIL OIL CORP.

(609) 737-4411

CHEMICAL NAMES AND SYNONYMS:

CHEMTREC:

PET. HYDROCARBONS AND ADDITIVES

(800) 424-9300

USE OR DESCRIPTION:

PRODUCT AND MSDS INFORMATION:

HYDRAULIC OIL

(800) 662-4525

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

APPEARANCE: Dark Amber Liquid

ODOR: Mild

PH: NA

VISCOSITY AT 40 C, CS: > 44.0 VISCOSITY AT 100 C, CS: 6.6

FLASH POINT F(G): > 395(202)

(ASIM D-92)

MELTING POINT F(C): NA

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

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

VOC: < 3.00(Wt. %); 0.221 lbs/gal

RELATIVE DENSITY, 15/4 C: 0.885

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.

--- INCLUDES AGGRAVATED MEDICAL CONDITIONS, IF ESTABLISHED --THRESHOLD LIMIT VALUE: 5.00 mg/m3 Suggested for Oil Mist
EFFECTS OF OVEREXPOSURE: Slight skin irritation.

V. EMERGENCY AND FIRST AID PROCEDURES

--- FOR FRIMARY ROUTES OF ENTRY ---

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 when ingested. If uncomfortable seek medical assistance.

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

FLASH POINT F(C): > 395(202) (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.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

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

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.

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.

IX. SPECIAL PROTECTION INFORMATION **********

EYE PROTECTION: Normal industrial eye protection practices should be employed.

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.

DEC. 7. 2005 11:56AM

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ORAL TOXICITY (RATS): Nontoxic --- Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Nontoxic --- 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): May cause slight irritation on prolonged or repeated contact. --- Based on testing of similar products and/or the components.

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.

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.

DOT:

Shipping Name: Not applicable Hazard Class: Not applicable

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 groduct 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.

Mobil

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THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE LISTS BELOW:

CHEMICAL NAME

ZINC DITHIOPHOSPHATE (.70%)

ZINC (ELEMENTAL ANALYSIS) (.09%)

7440-66-6

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--- REGULATORY LISTS SEARCHED ---

1 = ACGIH ALL 6 = IARC 1 11 = TSCA 4 17 = CA P65 22 = MI 293 2 = ACGIH Al 7 = IARC 2A 12 = TSCA 5a2 18 = CA RTK 23 = MN RTK 3 = ACGIH A2 8 = IARC 2B 13 = TSCA 5e 19 = FL RTK 24 = NJ RTK 4 = NTP CARC 9 = OSHA CARC 14 = TSCA 6 20 = IL RTK 25 = PA RTK 5 = NTP SUS 10 = OSHA 2 15 = TSCA 12b 21 = LA RTK 26 = RT RTK

16 - WHMIS CARC - CARCINOGEN; SUS - SUSPECTED CARCINOGEN

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

DISTILLATES (PETROLEUM), HYDROTREATED 64742-54-7
HEAVY PARAFFINIC

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC

64742-65-0

HAY CONTAIN THE FOLLOWING ADDITIVE COMPONENT:

PHOSPHORODITHIOIC ACID, MIXED 0,0- 0.63

68988-46-5

BIS(ISO-BU AND ISOCTYL AND PENTYL)
ESTERS, ZINC SALTS

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