

**INGERSOLL-RAND CO.  
TOOL & HOIST DIVISION**

**MATERIAL SAFETY DATA SHEET**

**NOTE:** Read and understand Material Safety Data Sheet  
before handling or disposing of product

Product Identification

IR NUMBER 50 OIL  
TEXACO REGAL R&O 68

September 29, 1994

# INGERSOLL-RAND CO., TOOL & HOIST DIVISION - NUMBER 50 OIL



Date Issued: 08-29-94

Supersedes: 08-02-94

TEXACO

## MATERIAL SAFETY DATA SHEET

NOTE: Read and understand Material Safety Data Sheet before handling or disposing of product.

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### MATERIAL IDENTITY

Product Code and Name.

00702 REGAL R&amp;O 68

Chemical Name and/or Family or Description:

Turbine Oils

Manufacturer's Name and Address:

TEXACO LUBRICANTS COMPANY

A DIVISION OF TEXACO REFINING AND MARKETING INC

P.O. Box 4427

Houston, TX 77210-4427

Telephone Numbers:

Transportation Emergency-Company : (914) 831-3400

CHEMTRAC : (800) 424-9200

Health Emergency -Company : (914) 831-3400

General MSDS Assistance : (914) 838-7204

Technical Information -Fuels : (914) 898-7336

-Chemical : (512) 459-6543

-Lubricant/ : (800) 782-7852

Anti-freezes

-Additives : (713) 235-6278

-Solvents : (800) 876-3738

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION.

Product and/or Component(s) Carcinogenic According to:

OSHA IARC NTP OTHER NONE

X

Composition: (Sequence Number and Chemical Name)

Seq.	Chemical Name	CAS Number	Range in %
01 *	Severely solvent refined, solvent-dewaxed heavy paraffinic petroleum distillates	64742-65-0	95.00-99.99

PRODUCT IS NON-HAZARDOUS ACCORDING TO OSHA (1910.1200).  
\* COMPONENT IS HAZARDOUS ACCORDING TO OSHA.

Exposure Limits referenced by Sequence Number in the Composition Section

Seq.	Limit
01	5 mg/m3 TWA-OSHA (MINERAL OIL MIST)
01	5 mg/m3 TWA-ACGIH (MINERAL OIL MIST)
01	10 mg/m3 STEL ACGIH (MINERAL OIL MIST)

### 3. HAZARD IDENTIFICATION

#### EMERGENCY OVERVIEW

Appearance:

Light pale liquid

Odor:

Mild odor

#### WARNING STATEMENT

.. NONE CONSIDERED NECESSARY

HMIS		NFPA	
Health:	0	Health:	0
Reactivity:	0	Reactivity:	0
Flammability:	1	Flammability:	1
Special:	-	Special:	-

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N.D. - NOT DETERMINED      N.A. - NOT APPLICABLE      N.T. - NOT TESTED  
< - LESS THAN              > - GREATER THAN



PRODUCT CODE: 00702  
NAME: REGAL R&D 68

Date Issued: 09-29-94  
Supersedes: 08-02-84

3. HAZARD IDENTIFICATION (CONT)

POTENTIAL HEALTH EFFECTS

	EYE	SKIN	INHALATION	INGESTION
Primary Route of Exposure:	X	X	X	-

EFFECTS OF OVEREXPOSURE

Acute:

Eyes:

May cause minimal irritation, experienced as temporary discomfort.

Skin:

Brief contact is not irritating. Prolonged contact, as with clothing wetted with material, may cause defatting of skin or irritation, seen as local redness with possible mild discomfort.

Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact; see other effects, below, and Section 11 for information regarding potential long term effects.

Inhalation:

Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

Ingestion:

If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur.

Sensitization Properties:

Unknown.

Chronic:

No adverse effects have been documented in humans as a result of chronic exposure. Section 11 may contain applicable animal data.

Medical Conditions Aggravated by Exposure:

Because of its defatting properties, prolonged and repeated skin contact may aggravate an existing dermatitis (skin condition).

Other Remarks:

Material from high pressure equipment, pinhole leaks, or high pressure line failure can penetrate the skin and, if not properly treated, can cause severe injury, including disfigurement, loss of function, or even require amputation of the affected area. To prevent such serious injury, immediate medical attention should be sought even if the injection injury appears to be minor.

4. FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

Skin:

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion:

If more than several mouthfuls of this material are swallowed, give two glasses of water (16 oz.). Get medical attention.

Inhalation:

If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

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**4. FIRST AID MEASURES (CONT)**

**Other Instructions:**

Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

High pressure injection of material can cause severe injury. Failure to debride the wound of all residual material can result in disfigurement, loss of function, or may require amputation of the affected area.

**5. FIRE-FIGHTING MEASURES**

**Ignition Temperature (degrees F):**

Not determined.

**Flash Point (degrees F):**

410 (COC)

**Flammable Limits (%):**

Lower: Not determined.

Upper: Not determined.

**Recommended Fire Extinguishing Agents And Special Procedures:**

Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

**Unusual or Explosive Hazards:**

None.

**Special Protective Equipment for Firefighters:**

No special equipment or procedures required.

**6. ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800)424-9300)**

**Procedures in Case of Accidental Release, Breakage or Leakage:**

Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

**7. HANDLING AND STORAGE**

**Precautions to be Taken in**

**Handling:**

Minimum feasible handling temperatures should be maintained

**Storage:**

Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Protective Equipment (Type)**

**Eye/Face Protection:**

Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

**Skin Protection:**

Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT)**

**Respiratory Protection:**

Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown

**Ventilation:**

Adequate to meet component occupational exposure limits (see Section 2).

**Exposure Limit for Total Product:**

None established for product; refer to Section 2 for component exposure limits

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:**

Light pale liquid

**Odor:**

Mild odor

**Boiling Point (degrees F):**

Not determined.

**Melting/Freezing point (degrees F):**

Not applicable.

**Specific Gravity (water=1):**

.8205

**pH of undiluted product:**

Not applicable.

**Vapor Pressure:**

Not determined.

**Viscosity:**

67 cSt at 40.0 C

**VOC Content:**

7 g/L (D2369)

**Vapor Density (air=1):**

Not determined.

**Solubility in Water (%):**

Not determined.

Other: None

**10. STABILITY AND REACTIVITY**

**This Material Reacts Violently With:**

(If Others is checked below, see comments for details)

Air Water Heat Strong Oxidizers Others None of These

**Comments:**

None

**Products Evolved When Subjected to Heat or Combustion:**

Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones.

**Hazardous Polymerizations: DO NOT OCCUR**

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NAME: REGAL R&D 68

Date Issued: 09-28-94  
Supersedes: 05-02-94

## 11. TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

#### Median Lethal Dose

##### Oral:

LD50 Believed to be > 5.00 g/kg (rat) practically non-toxic

##### Inhalation:

Not determined

##### Dermal:

LD50 Believed to be > 3.00 g/kg (rabbit) practically non-toxic

#### Irritation Index, Estimation of Irritation (Species)

##### Skin:

(Draize) Believed to be < .50 / 8.0 (rabbit) no appreciable effect

##### Eyes:

(Draize) Believed to be < 15.00 / 110 (rabbit) no appreciable effect

##### Sensitization:

Not determined.

##### Other:

None

## 12. DISPOSAL CONSIDERATIONS

### Waste Disposal Methods

This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

#### Remarks

None

## 13. TRANSPORT INFORMATION

### Transportation

#### DOT:

Proper Shipping Name:  
Not regulated

#### IMDG:

Proper Shipping Name:  
Not evaluated

#### ICAO:

Proper Shipping Name:  
Not evaluated

#### TDG:

Proper Shipping Name:  
Not evaluated

## 14. REGULATORY INFORMATION

### Federal Regulations:

#### SARA Title III:

##### Section 302/304 Extremely Hazardous Substances

Seq. Chemical Name	CAS Number	Range in %
None		

##### Section 302/304 Extremely Hazardous Substances (CONT)

Seq. TPO	RQ
None	

#### Section 311 Hazardous Categorization:

Acute	Chronic	Fire	Pressure	Reactive	N/A
-	-	-	-	-	X

#### Section 313 Toxic Chemical

Chemical Name	CAS Number	Concentration
None		

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14. REGULATORY INFORMATION (CONT)

CERCLA 102(a)/DOT Hazardous Substances: (+ indicates DOT Hazardous Substance)  
Seq. Chemical Name CAS Number Range in %  
None

CERCLA/DOT Hazardous Substances (Sequence Numbers and RQ's):  
Seq. RQ  
None

TSCA Inventory Status:  
This product is listed on the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Other:  
None.

State Regulations:  
California Proposition 65:  
The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.  
Chemical Name CAS Number  
None

States Right-to-know Regulations:  
Chemical Name State Right-to-know  
None

State list: CT (Connecticut), FL (Florida), IL (Illinois), MI (Michigan)  
LA (Louisiana), MA (Massachusetts), NJ (New Jersey),  
PA (Pennsylvania), RI (Rhode Island),

International Regulations:

HMIS Classification:  
Not regulated

Canada Inventory Status:  
N.D.

EINECS Inventory Status:  
N.D.

Australia Inventory Status:  
N.D.

Japan Inventory Status:  
N.D.

15. ENVIRONMENTAL INFORMATION

Aquatic Toxicity:  
Not determined.

Mobility:  
Not determined.

Persistence and Biodegradability:  
Not determined.

Potential to Bioaccumulate:  
Not evaluated.

Remarks:  
Not evaluated.

16. OTHER INFORMATION

None

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED

PAGE: 6

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Date Issued: 09-28-94  
Supersedes: 08-02-94

1B. OTHER INFORMATION (CONT)

INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION AS PART OF TEXACO'S PRODUCT SAFETY PROGRAM, IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA SHEETS ARE AVAILABLE FOR ALL TEXACO PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL TEXACO PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE AND YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, USER SHOULD CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. TEXACO DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS

Date: 09-29-94 New  Revised, Supersedes: 08-02-94  
Date printed: 10-07-94

Inquiries regarding MSDS should be directed to:  
Texaco Inc.  
Manager, Product Safety  
P.O. Box 509  
Beacon, N.Y. 12508

PLEASE SEE NEXT PAGE FOR PRODUCT LABEL

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**17. PRODUCT LABEL**

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FOR USE IN THE WORKPLACE. THIS LABEL IS NOT INTENDED TO BE USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS.

00702 REGAL R&O 68

**WARNING STATEMENT**

NONE CONSIDERED NECESSARY

**PRECAUTIONARY MEASURES**

- Avoid prolonged breathing of vapor, mist, or gas.
- Workers should wash exposed skin several times daily with soap and water.

**FIRST AID**

**Eye Contact:**

Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

**Skin Contact:**

Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

**Ingestion:**

If more than several mouthfuls of this material are swallowed, give two glasses of water (16 oz.). Get medical attention.

**Inhalation:**

If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

**Note to Physician:**

High pressure injection of material can cause severe injury. Failure to debride the wound of all residual material can result in disfigurement, loss of function, or may require amputation of the affected area.

**FIRE**

In case of fire, use water spray, dry chemical, foam or carbon dioxide. Water may cause frothing. Use water spray to cool fire-exposed containers.

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Range in %</u>
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Severely solvent refined, solvent-dewaxed heavy paraffinic petroleum distillates	64742-65-0	95.00-99.99
----------------------------------------------------------------------------------	------------	-------------

PRODUCT IS NON-HAZARDOUS ACCORDING TO OSHA (1910.1200).  
 COMPONENT IS HAZARDOUS ACCORDING TO OSHA.

<u>Pennsylvania Special Hazardous Substance(s)</u>	<u>CAS Number</u>	<u>Range in %</u>
----------------------------------------------------	-------------------	-------------------

None

**HMS**

Health: 0	Reactivity: 0	Health: 0	Reactivity: 0
Flammability: 1	Special: -	Flammability: 1	Special: -

**NFPA**

**Transportation**

**DOT:**

Proper Shipping Name:  
 Not regulated

**CAUTION:** Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.

**Manufacturer's Name and Address:**

TEXACO LUBRICANTS COMPANY  
 A DIVISION OF TEXACO REFINING AND MARKETING INC  
 P.O. Box 4427  
 Houston, TX 77210-4427

**TRANSPORTATION EMERGENCY** Company: (914) 831-3400  
 CHEMTREC: (800) 424-9300

**HEALTH EMERGENCY** Company: (914) 831-3400

**INGERSOLL-RAND CO.**  
**TOOL & HOIST DIVISION**

**MATERIAL SAFETY DATA SHEET**

**NOTE:** Read and understand Material Safety Data Sheet  
before handling or disposing of product

Product Identification

IR NUMBER 50 OIL

MOBILARMA 524

September 7, 1994



INGERSOLL-RAND CO., TOOL & HOIST DIVISION - NUMBER 50 OIL

MOBIL OIL CORPORATION MATERIAL SAFETY DATA BULLETIN

REVISED:09/07/94

\*\*\*\*\* I. PRODUCT IDENTIFICATION \*\*\*\*\*  
MOBILARMA 524

SUPPLIER: MOBIL OIL CORP. 24-HOUR EMERGENCY (CALL COLLECT): 609-737-4411  
CHEMICAL NAMES AND SYNONYMS: CHEMTEC: 800-424-9300 202-483-7616  
USE OR DESCRIPTION: PET. HYDROCARBONS AND ADDITIVES  
RUST PREVENTATIVE PRODUCT AND MSDS INFORMATION: 800-662-4525 703-849-3265

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

APPEARANCE: Dark Amber Liquid ODOR: Mild PH: NA  
VISCOSITY AT 40 C, CS: 88.4  
VISCOSITY AT 100 C, CS: 10.0  
FLASH POINT F(C): 425(218) (ASTM D-92)  
MELTING POINT F(C): NA POUR POINT F(C): 0(-18)  
BOILING POINT F(C): > 600(316) VOC: < 3.00(Wt. %); 0.221 lbs/gal  
RELATIVE DENSITY, 15/4 C: 0.884 SOLUBILITY IN WATER: Negligible  
VAPOR PRESSURE-mm Hg 20C: < 0.1

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

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

None

See Sections XII and XIII for regulatory and further compositional data.

\*\*\*\*\* IV. HEALTH HAZARD DATA \*\*\*\*\*

PPS. INCLUDES-AGGRAVATED MEDICAL CONDITIONS, IF ESTABLISHED  
THRESHOLD LIMIT VALUE: 5.00 mg/m3 Suggested for Oil Mist  
EFFECTS OF OVEREXPOSURE: No significant effects expected.

\*\*\*\*\* V. EMERGENCY AND FIRST AID PROCEDURES \*\*\*\*\*

FOR PRIMARY ROUTES OF ENTRY  
EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.  
SKIN CONTACT: Wash contact areas with soap and water.  
INHALATION: Not expected to be a problem.  
INGESTION: Not expected to be a problem when ingested. If uncomfortable seek medical assistance.

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

FLASH POINT F(C): 425(218) (ASTM D-92)  
FRAMABLE LIMITS: LEL: NA UEL: NA  
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. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.  
SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: None.  
NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0



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\*\*\*\*\* VII. REACTIVITY DATA \*\*\*\*\*

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.

\*\*\*\*\* VIII. SPILL OR LEAK PROCEDURE \*\*\*\*\*

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.

\*\*\*\*\* X. SPECIAL PRECAUTIONS \*\*\*\*\*

No special precautions required.

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\*\*\*\*\* XI. TOXICOLOGICAL DATA \*\*\*\*\*

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---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): Practically non-irritating. (Draize score: 0 or greater but 6 or less). ---Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: 0.5 or less). ---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 severely treated oils showed no evidence of carcinogenic effects.

\*\*\*\*\* XII. REGULATORY INFORMATION \*\*\*\*\*

GOVERNMENTAL INVENTORY STATUS: All components comply with TSCA, and EINECS/ELINCS.

Transport Information: Please see Section XIV.

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) REPORTABLE HAZARD CATEGORIES: None

This product contains the following SARA (313) Toxic Release Chemicals:



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PHOSPHORODITHOIC ACID, O,O-DI 68649-42-3 1.05%  
C1-14-ALKYL ESTERS, ZINC SALTS (2:1)  
(ZDDP)

THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE LISTS BELOW:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
ZINC (ELEMENTAL ANALYSIS) (0.09%)	7440-66-6	22
PHOSPHORODITHOIC ACID, O,O-DI	68649-42-3	18, 20, 21, 22, 24, 25
C1-14-ALKYL ESTERS, ZINC SALTS (2:1) (ZDDP) (1.05%)		

--- REGULATORY LISTS SEARCHED ---

1 = ACGIH ALL	6 = IARC 1	11 = TSCA 4	17 = CA P65	22 = MI 293
2 = ACGIH A1	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 Z	15 = TSCA 12b	21 = LA RTK	26 = RI RTK

CARC = CARCINOGEN; SUS = SUSPECTED CARCINOGEN

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

\*\*\*\*\* XIII. INGREDIENTS \*\*\*\*\*

See container label for ingredient information.

\*\*\*\*\* XIV. TRANSPORT AND LABEL INFORMATION \*\*\*\*\*

USA DOT: NOT REGULATED BY USA DOT.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

\*\*\*\*\* APPENDIX \*\*\*\*\*

FOR MOBIL USE ONLY: MHC: 0\* 0\* NA 0\* 0\*, MPPEC: A, PPEC:, US92-597  
APPROVE CCODE:3 10/08/92 REQ: US - MARKETING

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