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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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PRODUCT NUMBER(S): IPAC IMPERIAL LUBE OIL

5W-20, 5W-30, 10W-30, 10W-40, 15W-40, 20W-50, 10W, 30W, 40W

**COMPANY IDENTIFICATION**International Petroleum Products  
& Additives Company, Inc (IPAC)  
7600 Dublin Blvd. Suite 240  
Dublin, CA 94568**EMERGENCY TELEPHONE NUMBERS**

HEALTH (24 hr): (925) 556-5530

PRODUCT INFORMATION: MSDS Requests: (925) 556-5530

Environmental, Safety, &amp; Health Info.: (925) 556-5530

Product Information(925) 556-5530

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

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IPAC IMPERIAL LUBE OIL  
**CONTAINING**

## LUBRICATING BASE OIL

## SEVERELY REFINED PETROLEUM DISTILLATE

> 80.00%	5 mg/m3 (mist)	ACGIH TWA
	10 mg/m3 (mist)	ACGIH STEL
	5 mg/m3 (mist)	OSHA PEL

The BASE OIL may be a mixture of any of the following: CAS 64741884,

CAS 64741895, CAS 64741964, CAS 64741975, CAS 64742014, CAS 64742525, CAS 64742536, CAS 64742547,  
CAS 64742627, CAS 64742650, or CAS 72623837.

## ADDITIVES INCLUDING THE FOLLOWING

&lt; 20.00%

## ZINC ALKYL DITHIOPHOSPHATE

Chemical Name: PHOSPHORODITHIOIC ACID,O,O-DI-C1-14-ALKYL ESTERS, ZINC SALT

CAS68649423 &lt; 1.50% NONE NA

## COMPOSITION COMMENT:

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**Revision Number: 1.0****Revision Date: NOV-04****MSDS Number: 00001****NDA - No Data Available****NA - Not Applicable**



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**5. FIRE FIGHTING MEASURES**

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## FIRE CLASSIFICATION:

Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

## FLAMMABLE PROPERTIES:

FLASH POINT: (COC) 388F (198C) Min.

AUTOIGNITION: NDA

FLAMMABILITY LIMITS (% by volume in air): Lower: NA Upper: NA

EXTINGUISHING MEDIA: CO2, Dry Chemical, Foam, Water Fog

NFPA RATINGS: Health 1;

Flammability 1; Reactivity 0.

## FIRE FIGHTING INSTRUCTIONS:

This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

## COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur, nitrogen and phosphorus.

Incomplete combustion can produce carbon monoxide.

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**6. ACCIDENTAL RELEASE MEASURES**

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CHEMTREC EMERGENCY NUMBER (24 hr); (800)424-9300 or (202)483-7616

**ACCIDENTAL RELEASE MEASURES:**

This material may be toxic to aquatic organism and should be kept out of sewage and drainage systems and all bodies of water.

## ACCIDENTAL RELEASE MEASURES:

Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

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## 7. HANDLING AND STORAGE

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Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner, or properly disposed of. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

### ENGINEERING CONTROLS

Use in a well-ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

#### EYE/FACE PROTECTION:

No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

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#### SKIN PROTECTION:

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: <Viton> <Nitrile> <Silver Shield> <4H>

#### RESPIRATORY PROTECTION:

No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended mineral oil mist exposure limits. If not wear a NIOSH approved

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NA - Not Applicable

respirator that provides adequate protection from measured concentrations of this material. Use the following

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### PHYSICAL DESCRIPTION:

Amber liquid.

pH: NA

VAPOR PRESSURE: <0.01 mm Hg at 100F

### VAPOR DENSITY

(AIR=1): Heavier than air.

BOILING POINT: >600F (>315C)

FREEZING POINT: NA

MELTING POINT: NA

SOLUBILITY: Soluble in hydrocarbon solvents; insoluble in water.

SPECIFIC GRAVITY: 0.87 - 0.89 @ 15.6/15.6C

### VOLATILE ORGANIC

COMPOUNDS (VOC): <1 wt.%, 8.69 g/l (approx.)

VISCOSITY: 5.5 - 18.8 cSt @ 100C (Min.)

## 10. TOXICOLOGICAL INFORMATION

### EYE EFFECTS:

The eye irritation hazard is based on data for a similar material.

### SKIN EFFECTS:

The skin irritation hazard is based on data for a similar material.

### ACUTE ORAL EFFECTS:

The acute oral toxicity is based on data for a similar material.

### ACUTE INHALATION EFFECTS:

The acute respiratory toxicity is based on data for a similar material.

### ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans

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**NA - Not Applicable**

(Group 2B). This product contains zinc alkyl dithiophosphates (ZDDPs). Several ZDDPs have been reported to have weak mutagenic activity in cultured mammalian cells but only at concentrations that were toxic to the test cells. We do not believe that there is any mutagenic risk to workers exposed to ZDDPs.

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

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## **11. TRANSPORT INFORMATION**

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The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NONE

DOT HAZARD CLASS: NONE

DOT IDENTIFICATION NUMBER: NONE

DOT PACKING GROUP: N/A

ADDITIONAL INFO: Petroleum Lubricating Oil - Not Hazardous by U.S. DOT.

ADR/RID Hazard class - Not applicable.

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## **12. REGULATORY INFORMATION**

SARA 311 CATEGORIES:

1. Immediate (Acute) Health Effects: NO

2. Delayed (Chronic) Health Effects: NO

4. Sudden Release of Pressure Hazard: NO

The following components of this material are found on the regulatory lists indicated.

PHOSPHORODITHIOIC ACID,O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS is found on lists: 01,11,

SEVERELY REFINED PETROLEUM DISTILLATE is found on lists: 14,15,17,

NEW JERSEY RTK CLASSIFICATION:

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**NDA - No Data Available**

**NA - Not Applicable**

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A.

34:5A-1 et. seq., the product is to be identified as follows:

**PETROLEUM OIL**

**WHMIS CLASSIFICATION:**

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

**13. OTHER ADDITIONAL INFORMATION**

**REVISION STATEMENT**

Revises Section 8 (Exposure Controls/Personal Protection), Section 13 (Disposal Consideration), and Section 14 (Transport Information).



NFPA RATINGS: Health 1; Flammability 1; Reactivity 0;

HMIS RATINGS: Health 1; Flammability 1; Reactivity 0;

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal

Protection Equipment Index recommendation, \*- Chronic Effect indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

**ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:**

- TLV - Threshold Limit Value      TWA - Time Weighted Average
- STEL - Short-term Exposure Limit    TPQ - Threshold Planning Quantity
- RQ - Reportable Quantity      PEL - Permissible Exposure Limit
- C - Ceiling Limit      CAS - Chemical Abstract Service Number
- A1-5 - Appendix A Categories    () - Change Has Been Proposed
- NDA - No Data Available      NA - Not Applicable

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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