

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Opti-4 SAE 30

COMPANY IDENTIFICATION

MANUFACTURER:

Interlube International, Inc.
170 3rd Street
Blaine, WA 98230

EMERGENCY TELEPHONE NUMBERS

Health: 360-332-2132

Transportation: Chemtrec 800-424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

100% Opti-4 Four Cycle Lubricant

CONTAINING:

<u>Components</u>	<u>Amount</u>	<u>Limit/Qty</u>	<u>Agency/Type</u>
Hydrotreated Dist., Hvy Para			
Chemical Name: Distillates, Hydrotreated Heavy Parafinic			
CAS64742547	> 84.0%	5 mg/m3 (mist)	ACGIH TWA
		10 mg/m3 (mist)	ACGIH STEL
		5 mg/m3 (mist)	OSHA PEL

ADDITIVES, INCLUDING THE FOLLOWING:

< 16.0%

Zinc Alkyl Dithiophosphate

Chemical Name: Phosphorodithioic Acid, O, O-DI-C1-14-Alkyl Esters, Zinc Salt

CAS68649423 < 3.0%

COMPOSITION COMMENT

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m³, the OSHA PEL is 5 mg/m³.

TLV - Threshold Limit Value

STEL - Short Term Exposure Limit

RQ - Reportable Quantity

C - Ceiling Limit

A1-5 - Appendix A Categories

TWA - Time Weighted Average

TPQ - Threshold Planning Quantity

PEL - Permissible Exposure Limit

CAS - Chemical Abstract Service Number

() - Change has been proposed

3. HAZARDS IDENTIFICATION

Potential Health Effects

EYE: This substance is not expected to cause prolonged or significant eye irritation. This hazard evaluation is based on the data from similar materials.

SKIN: This substance is not expected to cause prolonged or significant skin irritation. The systemic toxicity of this product has not been determined.

However, it should be practically non-toxic to internal organs if it gets on the skin. This hazard evaluation is based on data from similar materials.

INGESTION: The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if swallowed. This hazard evaluation is based on data from similar materials.

INHALATION: The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if swallowed. This hazard evaluation is based on data from similar materials.

4. FIRST AID MEASURES

EYE: No first aid procedures are required. However, as a precaution flush eyes with fresh water for 15 minutes. Remove contact lenses if worn.

SKIN: No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

INGESTION: If swallowed, give water or milk to drink and telephone for medical advice. **DO NOT** make person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

INHALATION: Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required.

5. FIRE FIGHTING MEASURES

Flammable Properties:

FLASH POINT: COC 410°F (210°C)

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: For fires involving this material, don't enter any enclosed or confined fire space without proper protective equipment, including self contained breathing apparatus.

COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide and water vapor and may produce oxides of sulfur and nitrogen. Incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Chemtrec Emergency Number: 24 hour 1-800-424-9300

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 ground water. 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.

7. HANDLING AND STORAGE

DO NOT weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. **Caution!** Do not use pressure to empty drum or drum may rupture with explosive force. READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILLATED AREA. Keep container closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment:

EYE/FACE PROTECTION: No special eye protection is usually necessary.

SKIN PROTECTION: No special protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing.

RESPIRATORY PROTECTION: No special respiratory protection is normally required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standards, the use of an approved respirator is required.

ENGINEERING CONTROLS: Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

9. PHYSICAL AND CHEMICAL PROPERTIES

<u>PHYSICAL DESCRIPTION:</u>	Pale yellow liquid
<u>pH:</u>	NDA
<u>VAPOR PRESSURE:</u>	NDA
<u>VAPOR DENSITY (Air = 1):</u>	NDA
<u>BOILING POINT:</u>	NDA
<u>FREEZING POINT:</u>	NDA
<u>MELTING POINT:</u>	NA
<u>SOLUBILITY:</u>	Soluble in hydrocarbon solvents; insoluble in water
<u>SPECIFIC GRAVITY:</u>	0.88 @ 15.6 / 15.6C
<u>DENSITY:</u>	NDA
<u>EVAPORATION RATE:</u>	NA
<u>VISCOSITY:</u>	90 cSt @ 40°C (Min)
<u>PERCENT VOLATILE (VOL):</u>	NDA

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS: NA

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: NDA

INCOMPATIBILITY WITH OTHER MATERIALS: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, and etc.

HAZARDOUS POLYMERIZATION: Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

EYE AND SKIN EFFECTS: No product toxicology available. The hazard evaluation was based on data on the components.

ACUTE ORAL AND INHALATION EFFECTS: No product toxicology available. The hazard evaluation was based on data on the components.

ADDITIONAL TOXICOLOGY INFORMATION: This product contains zinc alkyl dithiophosphates (ZDDP's). Several ZDDP's 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 ZDDP's.

This product contains petroleum oils, which have been refined by 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 Research on Cancer (IARC) as: carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

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 oils is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: No data available.

ENVIRONMENTAL FATE: This material is not expected to present any environmental problems other than those associated with oil spills.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS: Oil collection services and collection centers are available for used motor oil recycling or disposal. Some service stations, automotive service centers and retailers provide motor oil collection facilities.

Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal or recycling methods.

14. TRANSPORT INFORMATION

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

DOT Shipping Name: Not designated as a hazardous material by the Federal DOT

DOT Hazard Class: Not applicable

DOT Identification #: Not applicable

DOT Packing Group: Not applicable

15. REGULATORY INFORMATION

SARA 311 Categories:	1. Immediate (Acute) Health Effects:	No
	2. Delayed (Chronic) Health Effects:	No
	3. Fire Hazard:	No
	4. Sudden Release of Pressure Hazard:	No
	5. Reactivity Hazard:	No

Regulatory Lists Searched:

01 = SARA 313	11 = NJ RTK	22 = TSCA Sect 5 (a) (2)
02 = MASS RTK	12 = CERCLA 302.4	23 = TSCA Sect 6
03 = NTP Carcinogen	13 = MN RTK	24 = TSCA Sect 12 (b)
04 = CA Prop 65 – Carcin	14 = ACGIH TWA	25 = TSCA Sect 8 (a)
05 = CA Prop 65 – Repro Tax	15 = ACGIH STEL	26 = TSCA Sect 8 (d)
06 = IARC Group 1	16 = ACGIH Calc TLV	27 = TSCA Sect 4 (a)
07 = IARC Group 2A	17 = OSHA PEL	28 = Canadian WHMIS
08 = IARC Group 2B	18 = DOT Marine Pollutant	29 = OSHA CEILING
09 = SARA 302/304	19 = EPA Carcinogen	
10 = PA RTK		

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

Distillate, Hydrotreated Heavy Paraffinic is found on lists: 14, 15, 17

Phosphorodithioic Acid, O, O-DI-CI-14-Alkylesters, Zinc Salts is found on lists: 01, 11.

16. OTHER INFORMATION

NFPA Ratings: Health 1; Flammability 1; Reactivity 0 (Least – 0, Slight – 1, Moderate – 2, High – 3, Extreme – 4). 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).



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 use.