



**SPECIALIZED LUBRICANTS**

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**1. Substance/Product Identification**

**Product Name: 110 Micron Moly® Racing Oil SAE 30, SAE 40 and SAE 50**

**Company/Address: Schaeffer Mfg**

**102 Barton Street**

**Saint Louis, Missouri 63104**

**USA**

**Synonyms: None**

**Preparation/Revision Date: 03/10/2011**

**Product Use/Type: Engine oil for gasoline powered vehicles**

**Emergency Phone Number: +1 314 865-4105 (24-hour response number)**

**+ 1 314 865-4100 (Business hours 8:30AM-5:00PM)**

**1-800-325-9962 (US & Canada)**

**Website: [www.schaefferoil.com](http://www.schaefferoil.com)**

**MSDS Number: 110 Version 1.0**

**2. Hazards Identification**

**Appearance: Green color**

**Odor: Petroleum**

**Principal Hazards: Eye, skin and upper respiratory irritation**

**Hazardous Materials Information System**

**(U.S.A)**

**Health: 1**

**Fire: 1**

**Reactivity: 0**

**National Fire Protection Agency System**

**(U.S.A.)**

**Health: 1**

**Fire: 1**

**Reactivity: 0**

See Section 11 for complete health hazard information

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### **3. Composition and Information on Ingredients**

#### **Hazardous Ingredients**

<b>Ingredient Name</b>	<b>CAS No.</b>	<b>EU Number</b>	<b>Percentage (by wt.)</b>
Complex Mixture of Petroleum Base Oils	Various	Various	10 – 90
Proprietary Additives - Specific Chemical Identity withheld (trade secret)	Complex Mixture of Chemicals Trade Secret	Complex Mixture of Chemicals Trade Secret	<20
Zinc alkyl dithiophosphate	Trade Secret	Trade Secret	1 – 2.5

**The petroleum base oils contained in this product have been highly refined by various processes including severe hydrotreating and hydrocracking to reduce their aromatic content and to improve performance properties. The highly refined petroleum base oils contain <3% w/w DMSO extracts according to the IP 346 Test method and are not considered to be carcinogenic.**

**The complex mixture of petroleum base oils may contain a mixture of the following CAS numbers: 64742-54-7, 64742-46-7, 64742-01-4, 64742-62-7 64742-52-6, 72623-87-1, 72623-86-0, 72623-84-8, 72623-85-9, and 64741-88-4**

### **4. First Aid Measures**

**Ingestion:** If swallowed, do not induce vomiting. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person.

**Eyes:** Flush eyes with running water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get immediate medical attention.

**Inhalation:** Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

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#### **4. First Aid Measures continued**

**Skin:** To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. Get medical attention if any irritation or redness develops.

**Additional Information:** Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

#### **5. Fire Fighting Measures:**

**Flash Point:** 440°F to 500° (227°to 260°C) ASTM D-92 C.O.C Method

**Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Firefighting Procedures:** 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

**Unusual Fire & Explosion:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

#### **6. Accidental Release Measures**

**Spill Procedures and Clean up methods:** Eliminate all sources of ignition in vicinity of spilled material. Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

**Personal Precautions:** Wear appropriate personal protective equipment when cleaning up spills.

**Environmental Precautions:** U.S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to all applicable Federal, State, Provincial and local authorities and/or the United States National Response Center at (800) 424-8802 as appropriate or required.

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**7. Handling & Storage**

**Handling:** Avoid all contact of product with eyes and skin. Wash thoroughly after handling and before eating, smoking or using toilet facilities. Do not swallow product. Do not inhale vapors or mists. Do not eat, drink or smoke in work areas.

**Storage:** Do not store product at elevated temperatures. Store in a cool dry place that has adequate ventilation. Do not store near food or feed products. Keep containers closed when not in use.

**Container Warnings:** 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 cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks, static electricity or other sources of ignition. There may explode and cause injury or death. Empty containers should be completely drained, properly closed and promptly returned to a drum reconditioner or disposed of properly.

**8. Exposure Controls and Personal Protection**

**Occupational Exposure Limits**

<b>Ingredient</b>	<b>OSHA TWA</b>	<b>OSHA STEL</b>	<b>ACGIH TWA</b>	<b>ACGIH STEL</b>
Complex Mixture of Petroleum Base Oils	5.0 mg/m <sup>3</sup>		5.0 mg/m <sup>3</sup>	
Zinc alkyl dithiophosphate	NE		NE	

- (s)-Skin exposure
- (p) proposed limit
- (c) – Ceiling limit
- (l) Recommended exposure limit
- (u) supplier limit
- (N/E) – not established

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## **8. Exposure Controls and Personal Protection continued**

### **Other Exposure Limits**

**Engineering Controls:** If user operations generate an oil mist, determine if airborne concentrations are below the OSHA Permissible Limit (PEL) of 5 mg/m<sup>3</sup> for mineral oil mist. If not, wear a NIOSH approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.

### **Personal Protective Equipment**

**Gloves:** Nitrile or oil resistant gloves

**Protective Clothing:** Wear impervious protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing.

**Eye Protection:** Wear eye protection such as safety glasses, chemical goggles, or face shields if engineering controls or work practices are not adequate to prevent eye contact.

**Skin Protection:** Wear impervious protective clothing to prevent skin contact.

**Respiratory Protection:** If user operations generate an oil mist, determine if airborne concentrations are below the OSHA Permissible Limit (PEL) of 5 mg/m<sup>3</sup> or other applicable standards for mineral oil mist. If not, wear a NIOSH approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge

## **9. Physical and Chemical Properties**

**Flash Point:** 440° to 500°F (227° to 260°C) ASTM D-92 C.O.C. Method

**Specific Gravity:** 0.87 – 0.89 @ 15°C

**Upper Flammable Limit (UEL):** Not Determined

**Lower Flammable Limit (LEL):** Not Determined

**Vapor Pressure:** Not Determined

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

**Percent Volatile:** Negligible

**Evaporation Rate:** Not Determined

**pH:** Not Applicable

**Boiling Point:** >600°F (>315°C)

**Melting Point:** Not Applicable

**Appearance:** Green color

**Odor:** Petroleum

**Solubility in Water:** Negligible

***The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise specified***

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#### **10. Stability and Reactivity**

**Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Materials to Avoid:** Strong acids, bases and oxidizers

**Polymerization:** Not expected to occur during conditions of normal use.

**Thermal Decomposition:** Smoke, a complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

**Conditions to Avoid:** May react with oxygen and strong oxidizing agents, such as chlorates, peroxides, etc.

#### **11. Toxicological Information:**

**Routes of Exposure:** Skin, eyes, ingestion and inhalation

**Target Organs:** Skin, eyes, upper respiratory tract

#### **Acute Exposure**

**Ingestion:** Ingestion may cause a laxative effect. This material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death.

**Eye Contact:** Slight irritation and redness to eyes

**Skin Contact:** Contact with skin is not expected to cause prolonged or significant irritation

**Inhalation:** Contains synthetic hydrocarbon and petroleum base oils. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit.

**Dermal Sensitization:** Product may be a dermal sensitizer

**Inhalation Sensitization:** Not expected to be an inhalation sensitizer.

**Carcinogenicity:** This product does not contain any of the chemicals listed on the United States National Toxicology Program Annual Reports on Carcinogens, The International Agency for Cancer Research Monographs and United State's Occupational Safety and Health Administrations 29CFR 1910.10 Subpart Z List.  
Ames Test: Negative

The highly refined petroleum base oils contain <3% w/w DMSO extracts according to the IP 346 Test method and are not considered to be carcinogenic.

**Additional Toxicological Information:** No data available to indicate the product or any of its components are present at greater than 0.1% are mutagenic, genotoxic or teatogenic

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**11. Toxicological Information continued:**

**Acute toxicity**

**Petroleum base oils**

**Acute Inhalation Toxicity:** LC50 >5,000 mg/m<sup>3</sup> (rat)

**Acute Oral Toxicity LD50:** >2,000 mg/kg (rat)

**Acute Dermal Toxicity: LD50:** >2,000 mg/kg (rabbit)

**Proprietary Additives**

**Acute Oral Toxicity:** LD50 / rat / > 2000 mg/kg

**Acute Dermal Toxicity:** LD50 / rat / > 2000 mg/kg

**Acute Inhalation Toxicity:** LC50 /rat/ >200 mg/l (4 hr)

**12. Environmental and Ecological Information**

**Ecotoxicity**

**Petroleum Base Oils**

96 hour(s) / LC50 / Fresh water fish (*Oncorhynchus mykiss*) / >5,000 mg/l

- 48 hour(s) / EC50 / water flea (*Daphnia magna*) / >1,000 mg/l

- 96 hour(s) / LC50 / Rainbow trout (*Salmo gairdneri*) / >1,000 mg/l

**Proprietary Additive System**

- 96 hour(s) / LC50 / Rainbow trout (*Salmo gairdneri*) / 10-100 mg/l

- 48 hour(s) / EC50 / water flea (*Daphnia magna*) / 10-100 mg/l

- 48 hour(s) / EC50 / water flea (*Daphnia magna*) / 190 mg/l

**12. Environmental and Ecological Information**

**Environmental Fate**

**Biodegradation:** This material is not expected to be readily biodegradable

**Bioaccumulation:** This material is not expected to bioaccumulate

**Water Class Hazard (Germany):** Water Hazard Class 2 according to appendix 4 VwVwS dated 27.7.2005

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### **13. Disposal Considerations**

**Waste Handling and Disposal:** This product in its neat state when discarded or disposed of is not a hazardous waste according to United States Federal Regulations 40CFR 261.4 (b)(4). Dispose of product in accordance with all applicable Federal, State and local laws and regulations. Under RCRA, it is the responsibility of the user of this product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Do not re-use empty containers

### **14. Transport Information**

**US DOT Classification Non-Bulk:** Not regulated as a hazardous material or dangerous good for transportation.

**US DOT Classification Bulk:** Not regulated as a hazardous material or dangerous good for transportation.

**IMDG Classification:** Not regulated as a hazardous material or dangerous good for transportation.

**IATA/ICAO Classification:** Not regulated as a hazardous material or dangerous good for transportation

### **15. Regulatory Information**

#### **Hazard Symbols**

**EU**



**Xi Irritant**



**GHS Symbol:**

**Health Hazards:** Prolonged and repeated contact may be irritating to skin

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**15. Regulatory Information continued**

**US Regulations**

**TSCA Inventory:** All of the components in this material are on the US TSCA Inventory or are exempt.

**State of California Proposition 65:** This product does not contain any of the chemical listed on the State of California's Proposition 65 List for chemicals classified as potential reproductive or cancer causing agents.

**US EPA SARA Title III and CERCLA Listings and Reportable Quantities**

This product contains 0.4 to 0.85% of Zinc alkyl dithiophosphate which listed on the US EPA's SARA Title III and CERCLA Lists as Zinc and Zinc Compounds.

**US EPA Section 311/313 Classifications**

None

**US EPA Section 313 Chemicals**

This product contains 0.4 to 0.85% of Zinc alkyl dithiophosphate which listed on the US EPA's Section 313 List as Zinc and Zinc Compounds.

**US Tariff Heading Number: 2710.19.3020**

**Schedule B Number: 2710.19.3020**

**Other Regulations:**

**Canada:** All of the ingredients of this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substance List

**Canadian WHMIS Classifications and Symbols:** This product is not considered to be a WHMIS hazard

**EEC:** All components are in compliance with the EC Seventh Amendment Directive 92/32/EEC

**16. Other Information**

**For additional information call +1 314-865-4100 (outside the US and Canada) or 1-800-325-9962 inside the United States and Canada.**

Although the information and recommendations set forth herein (hereafter referred to as information) are presented in good faith and believed to be accurate and factual as of the date hereof, Schaeffer Mfg. Company makes no representation as to the completeness or accuracy thereof. Information is supplied upon the condition that the person receiving the same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Schaeffer Mfg. Company be responsible for damages of any natures whatsoever resulting from the use or reliance upon information. **No representation or warranty, either expressed or implied, of merchantability or fitness for a particular purpose is made with respect to information of the product to which the information refers. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.**