

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

OLYMPIC OIL, LTD.
5000 W. 41st St.
Cicero, IL 60804

Technical

Contact: Phone: 708-876-7900 (M-F 6:00 A.M. - 4:30 P.M.)

MSDS Number: MSOL703

Product Name: **BRIGGS HEAVY DUTY LAWNMOWER OIL SAE 30**

Emergency Overview	Hazard Ranking												
Physical State: Liquid Color: Amber Odor: Mild May cause temporary irritation to the eyes. Prolonged or repeated exposure may cause skin irritation. Spills may create a slipping hazard.	<table><thead><tr><th></th><th>HMIS</th><th>NFPA</th></tr></thead><tbody><tr><td>Health</td><td>2</td><td>2</td></tr><tr><td>Fire</td><td>1</td><td>1</td></tr><tr><td>Reactivity</td><td>0</td><td>0</td></tr></tbody></table>		HMIS	NFPA	Health	2	2	Fire	1	1	Reactivity	0	0
	HMIS	NFPA											
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Key: 4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal

2. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Hazardous Component(s)</u>	<u>CAS#</u>	<u>% WT (Approx)</u>
Zinc Alkyldithiophosphate	Confidential	1 – 5
Alkylated Phenol	Confidential	1 – 5
Diphenylamine	122-39-4	0.1 – 0.9

3. HAZARDS INFORMATION

- May cause slight, temporary eye irritation.
- May cause slight skin irritation with prolonged or repeated exposure.
- May cause chronic health effects based on data with laboratory animals.

4. FIRST AID MEASURES

EYES: Flush eyes with clean, low-pressure water for at least 15 minutes, occasionally lifting the eyelids. Get medical attention if irritation develops or persists.

SKIN: Wash skin thoroughly with plenty of soap and water. Immediately remove contaminated clothing. Launder contaminated clothing before reuse. Discard contaminated leather gloves and shoes. If irritation persists, get medical attention.

INGESTION: DO NOT INDUCE VOMITING. If more than a half-cup full of this material is swallowed, give quantities of water and obtain medical attention. Do not give anything by mouth to an unconscious person.

INHALATION: Vaporization is not expected at ambient temperatures. This material is not expected to be an inhalation problem under the anticipated conditions of use. In case of overexposure, move person to fresh air. If not breathing, administer artificial respiration and oxygen.

NOTE TO PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: 392 - 428°F(200 - 225°C) METHOD: COC D92

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam or water spray. Water may be effective, but may cause frothing and spattering. Cool tanks and exposed containers with water. Material will float on water.

HAZARDOUS COMBUSTION PRODUCTS: Toxic fumes, gases or vapors may evolve on burning.

FIRE FIGHTING INSTRUCTIONS: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of combustion products and oxygen deficiencies.

6. ACCIDENTAL RELEASE MEASURES

Ensure your own health and safety before attempting spill control or clean up. Take the proper precautions see Section 1 for Emergency Overview, Section 8 for Personal Protection and Section 13 for Disposal Considerations.

SMALL SPILL: Personal protective equipment must be worn (see Person Protection section for recommendations). Absorb spill with an inert material (e.g., dry sand or earth), then place in a chemical waste container. Use caution, material may present a slipping hazard.

LARGE SPILL: Contain spill and prevent it from entering all water bodies, if possible. Safely stop flow of spill. Evacuate non-essential personnel from immediate spill area. Ventilate area if spilled in a confined space or other poorly ventilated areas. Seek the advice of ecologists for clean up in natural environments. This material will float on water. Absorbent materials and pads can be used. Maximize product recovery for reuse or recycling. Transfer liquids and solid diking material to separate,

suitable containers for recovery or disposal. Comply with all applicable laws. Spills may need to be reported to the National Response Center (800-424-8802).

7. HANDLING AND STORAGE

HANDLING: Keep away from heat, sparks and flame. Keep containers closed when not in use. Hands should be washed thoroughly after handling. When transferring material, use proper bonding and/or grounding procedures. Empty containers contain residue, which may exhibit the hazards of the product. Do not attempt to refill or clean containers since residue is difficult to remove. Do not pressurize, cut, heat or weld containers.

STORAGE: KEEP OUT OF REACH OF CHILDREN! Odorous and toxic fumes may form from decomposition of this material if stored in temperatures in excess of 113 Deg. F (45 Deg. C) for extended periods of time.

STORAGE TEMPERATURE: Ambient
STORAGE PRESSURE: Atmospheric

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

1 EXPOSURE GUIDELINES:

COMPONENT	OSHA		ACGIH	
	TWA	STEL	TWA	STEL
Refined Petroleum Oil (Oil Mist)	5 mg/m ³	N/E	5 mg/m ³	10 mg/m ³
Additive Mixture (Oil Mist)	5 mg/m ³	N/E	5 mg/m ³	10 mg/m ³
Zinc Alkyldithiophosphate	N/E	N/E	N/E	N/E
Alkylated Phenol	N/E	N/E	N/E	N/E
Diphenylamine	N/E	N/E	10 mg/m ³	N/E

2 ENGINEERING CONTROLS: Use adequate ventilation to keep oil mists of this material below applicable guideline(s)/standard(s).

3 RESPIRATORY PROTECTION: Under normal conditions, a respirator is not required. If exposure exceeds the occupational exposure limits, follow OSHA standards or equivalent and wear proper NIOSH/MSHA-approved respiratory equipment.

4 SKIN PROTECTION: Use chemical resistant gloves to avoid prolonged or repeated skin contact. The following materials may provide suitable chemical protection: Nitrile, Neoprene, and Viton. Always seek advise from glove suppliers. Gloves should be replaced if signs of degradation or chemical breakthrough occur. Long sleeve shirt is recommended. When leaving work area, wash hands/exposed skin with soap and water.

5 EYE PROTECTION: Use splash goggles or face shield when eye and face

contact is possible due to splashing or spraying of material. Eye wash water should be available. Hard contact lenses should not be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

APPEARANCE:	<u>Amber</u>
FLASH POINT:	<u>392 - 428 Deg. F (200-225 Deg. C) by COC D92</u>
ODOR:	<u>Mild Petroleum</u>
SPECIFIC GRAVITY:	<u>0.87 – 0.89</u>
SOLUBILITY IN WATER:	<u>Negligible</u>
PHYSICAL STATE:	<u>Liquid</u>
VAPOR PRESSURE:	<u>0.1 mmHg at 70 Deg. F</u>
VAPOR DENSITY:	<u>Not Determined</u>
PERCENT VOLATILE:	<u>Not Determined</u>
BOILING POINT:	<u>>400 Deg. F</u>
VISCOSITY @ 100°C	<u>9.3 – 12.4 centistokes</u>

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Material is considered stable at room temperature and pressure. Avoid heat, sparks and open flame.

INCOMPATIBILITY: Strong oxidizing agents, acids and alkalis

HAZARDOUS COMBUSTION PRODUCTS: Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Complete combustion will form oxides of the following elements: calcium, nitrogen, sulfur, phosphorus, sodium and zinc.

POSSIBILITY OF HAZARDOUS REACTIONS: None

11. TOXICOLOGICAL INFORMATION

EYE IRRITATION: May cause slight, temporary irritation with short-term exposure based on component data.

SKIN IRRITATION: May cause slight irritation with prolonged or repeated exposure resulting in redness, edema, drying or cracking of skin. Based on component data. Personnel with pre-existing skin disorders should avoid contact with this product.

RESPIRATORY IRRITATION: No significant adverse health effects are expected to occur under normal conditions of use. However, exposure to petroleum mist at high levels may be irritating to the nose, throat and lungs.

ORAL TOXICITY: No significant adverse health effects are expected to occur upon short-term exposure based on data from components. May be harmful if aspirated into the lungs.

DERMAL SENSITIZATION: Contains a component known to be a sensitizer in animals. Prolonged or repeated exposure may cause an allergic skin reaction based on component data.

CHRONIC TOXICITY: Based on component data, repeated swallowing of a component contained in this product may cause destruction of the stomach lining. It also caused enlargement of the liver and thyroid in rat toxicity studies. These effects were reversible upon cessation of treatment.

CARCINOGENICITY: This product is formulated with mineral oils, which are considered to be severely refined and not considered to be carcinogenic under IARC. The IP346 test has not been used to evaluate all the oils.

MUTAGENICITY: No Data

TERATOGENICITY (BIRTH DEFECT): Based on component data, there are conflicting reports in the literature regarding the teratogenicity of diphenylamine. However, since the dosage and exposure were in high dose levels, it would not seem to present a workplace hazard.

REPRODUCTIVE TOXICITY: No Data

12. ECOLOGICAL INFORMATION

The spilled material and any soil or water that it has contaminated may be hazardous to animal/aquatic life.

CHEMICAL FATE INFORMATION: Not determined.

13. DISPOSAL CONSIDERATIONS

To determine the proper method of disposal, refer to RCRA (40 CFR 261) as well as federal EPA and state and local regulations. Conditions of use may cause this material to become a "Hazardous Waste", as defined by state or federal laws. Use approved treatment, transporters and disposal sites in compliance with all applicable laws.

14. TRANSPORT INFORMATION

DOT Hazard Class: Not Regulated

UN/NA Number: Not Regulated
IMO: Not Regulated
IATA: Not Regulated

15. REGULATORY INFORMATION

GLOBAL REGULATORY INFORMATION

INVENTORY

STATUS

United States (TSCA)	All ingredients are on the inventory.
Other TSCA	Section 4a (Diphenylamine), Section 4a (Nonane) Section 4a Benzene, 1,2,4 Trimethyl, Isobutyl alcohol, Isopropyl alcohol and Phenol may be subject to export notification under section 12(b).
Canada (DSL)	Contains components that may not be on inventory.
European Union (EINECS)	Contains a component that may not be on inventory.
Japan (METI)	Contains components that may not be on inventory.
Philippines	Contains components that may not be on inventory.
South Korea (KECL)	Contains components that may not be on inventory.
Australia (AICS)	Contains components that may not be on inventory.
China	Contains components that may not be on inventory.

U. S. REGULATORY INFORMATION

SUPERFUND AMMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA), TITLE III: This product contains less than 1.0% zinc.

SARA EXTREMELY HAZARDOUS LIST: This product does not contain greater than 1.0% of any chemical on the SARA Extremely Hazardous List.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA): This product contains less than 1.0% zinc.

SARA 312 CLASSIFICATIONS:

Acute Hazard	Yes
Chronic Hazard	No
Fire Hazard	No
Reactivity Hazard	No

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT

ACT OF 1986 - PROPOSITION 65: Based on information currently available, this product contains chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition: <1 ppm arsenic, <1 ppm cadmium, <1 ppm lead. If this product is reformulated or further processed, further evaluation should be done based upon such reformulation or processing, as well as upon its final composition and use.

16. OTHER INFORMATION

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources, which we believe are reliable. ***HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS.***

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. ***FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT.***

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Date: 29 August 2006

Revision Date: 12 October 2004

Changes: Section 2: Composition, Information on Ingredients