

Material Safety Data Sheet

SECTION 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: MSOL704

Product Name: 4-CYCLE ENGINE OIL SAE 5W-30 (SNOW BLOWER OIL)

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview	Hazard Ranking		
Physical State: Liquid Color: Amber Odor: Mild May cause slight, temporary irritation to the eyes. Prolonged or repeated exposure may cause skin irritation. May be harmful to aquatic organisms. Spills may create a slipping hazard.		HMIS	NFPA
	Health	2	2
	Fire	1	1
	Reactivity	0	0

Key: 4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient	CAS No.	WT % (approx)
Zinc Dithiophosphate	Confidential	1.0 – 9.9
Calcium Sulfonate	Confidential	0.1 – 0.9

SECTION 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.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: 392 - 437°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.

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. Material will float on water. Cool tanks and exposed containers with water.

SECTION 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).

SECTION 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.

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

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Guidelines:

COMPONENT	OSHA		ACGIH	
	TWA	STEL	TWA	STEL
Oil mist, mineral	5 mg/m ³	N/E	5 mg/m ³	10 mg/m ³
Zinc Alkyldithiophosphate	N/E	N/E	N/E	N/E
Hydrogen Sulfide	20 ppm	50 ppm	10 ppm	15 ppm

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

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.

Skin Protection: Use chemical resistant gloves to avoid prolonged or repeated skin contact. Always seek advice from glove suppliers. Gloves should be replaced if signs of degradation or chemical breakthrough occur. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Long sleeve shirt is recommended. When leaving work area, wash hands/exposed skin with soap and water.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (TYPICAL)

APPEARANCE:	<u>Amber</u>
FLASH POINT:	<u>392 - 437 Deg. F (200 - 225 Deg. C) by COC D92</u>
ODOR:	<u>Mild Petroleum</u>
SPECIFIC GRAVITY:	<u>0.85 – 0.87</u>
SOLUBILITY IN WATER:	<u>Negligible</u>
PHYSICAL STATE:	<u>Liquid</u>
VAPOR PRESSURE:	<u>Not Determined</u>
VAPOR DENSITY:	<u>Not Determined</u>
PERCENT VOLATILE:	<u>Not Determined</u>
BOILING POINT:	<u>Not Determined</u>
VISCOSITY @ 100°C	<u>9.3 – 12.5 centistokes</u>

SECTION 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

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, phosphorus, sulfur, and zinc.

Possibility of Hazardous Reactions: None

SECTION 11: TOXICOLOGICAL INFORMATION

Eye Irritation: May cause slight, temporary irritation, based on component data.

Skin Irritation: Not expected to be a primary irritant based on component data. May cause slight irritation with prolonged or repeated exposure resulting in redness, edema, drying or cracking of skin. 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.

Chronic Toxicity: No data..

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) Information: No Data

Reproductive Toxicity: No Data

SECTION 12: ECOLOGICAL INFORMATION

The spilled material and any soil or water that it has contaminated may be harmful to aquatic life. May cause long-term adverse effects in the aquatic environment.

SECTION 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.

EMPTY CONTAINER WARNING: 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. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Hazard Class:	Not Regulated
UN/NA Number:	Not Regulated
IMO:	Not Regulated
IATA:	Not Regulated

SECTION 15: REGULATORY INFORMATION

GLOBAL REGULATORY INFORMATION

United States (TSCA)	All ingredients are on the inventory.
Canada (DSL)	All ingredients are on the inventory.
European Union (EINECS)	Contains a component with ELINCS restrictions.
Japan (METI)	All ingredients are on the inventory.
Philippines	All ingredients are on the inventory.
South Korea (KECL)	All ingredients are on the inventory.
Australia (AICS)	All ingredients are on the inventory.
China	All ingredients are on the inventory.

U. S. REGULATORY INFORMATION

SARA III, Section 313: This product contains 1.0% zinc

Comprehensive Environmental Response Compensation and Liability Act (CERCLA): This product contains 1.0% zinc.

SARA 311 Classifications:

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

SARA Extremely Hazardous Substance: This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

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.

SECTION 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: 6 February 2007

Revision Date: 29 November 2004

Changes: Format change
 Section 12: Chronic Toxicity
 Section 12: Teratology Information
 Section 15: TSCA Regulation