



# SEMI-SYN

Released: 2015-08-14

Version: 1.1  
Revision Date: 2015-8-14

## 1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

**Supplier:** Maxima Racing Oils  
**Product Name:** Semi-Syn 10W-40, 20W-50  
**Article Number:** 39-34901B  
**Applications:** 4T Engine Oil

## 2. HAZARDS IDENTIFICATION

### GHS Classification

Eye Irritation Category 2A

### GHS Pictogram



### Signal Word

**Warning!**

### Hazard Statements

H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

### Precautionary Statements

**Prevention** P261 Avoid breathing mist, vapors or spray.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves and eye protection.

**Response** P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical attention.

**Storage** None

**Disposal** P501 Dispose of contents and container in accordance with local and national regulations.

**Other Hazards** None



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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	Content %	CAS Number
Hydrotreated paraffinic petroleum distillate	50-60	Proprietary
Synthetic base oil	20-40	Proprietary
Multifunctional Additive Package	1-10	Mixture
Zinc dialkyl dithiophosphate	<3	Proprietary
Long chain alkyl thio carbamide metal complex	<2	Proprietary

The specific identity and/or exact percentage has been withheld as a trade secret.

### 4. FIRST-AID MEASURES

<b>Inhalation</b>	If inhaled remove to fresh air. If irritation or difficulty in breathing occurs, get medical attention.
<b>Skin Contact</b>	Wash skin with soap and water. Remove clothing and shoes if contaminated. Launder clothing before reuse. If irritation or rash develops, get medical attention.
<b>Eye Contact</b>	Flush eyes with water for several minutes. Remove contact lenses, if present and easy to do so. If eye irritation persists, get medical attention.
<b>Ingestion</b>	If conscious, rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Most Important Symptoms</b>	Causes eye and skin irritation. May cause allergic skin reaction. Inhalation of vapors or mists may cause respiratory irritation. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Indication of Immediate Medical Attention Needed</b>	Immediate medical attention is not required.
<b>Notes to Physician</b>	Treat appropriately

### 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use water fog, foam, dry chemical or carbon dioxide (CO <sub>2</sub> ) to extinguish flames.
<b>Specific Hazards Arising From The Chemical</b>	This material will burn although it is not easily ignited. Combustion will produce carbon oxides and unidentified organic compounds.



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**Special Protective Equipment And Precautions For Fire-Fighters** Firefighters should wear full emergency equipment and a NIOSH approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Wear appropriate protective equipment. Wash thoroughly after handling. See also: "Personal Protection "section 8.

**Environmental Hazards** Avoid release into the environment. Report spill as required by local and federal regulations.

**Methods/Materials for Cleaning up** Dike spill and collect with an inert absorbent. Place into closable containers for disposal. Collected material is handled in accordance with section 13 "Disposal Considerations".

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Wash thoroughly after handling. Remove oil-soaked clothing and launder before re-use.

**Conditions for Safe Storage** Store in a cool area away from oxidizing agents. Protect containers from physical damage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Limits</b>	Hydrotreated paraffinic petroleum distillate	5 mg/m <sup>3</sup> TWA OSHA PEL (as oil Mist) 5 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable)
	Synthetic base oil	5 mg/m <sup>3</sup> TWA OSHA PEL (as oil Mist) 5 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable)
	Multifunctional Additive Package	None Established
	Zinc dialkyl dithiophosphate	None Established
	Long chain alkyl thio carbamide metal complex	10 mg/m <sup>3</sup> TWA Manufacturer

**Appropriate Engineering Controls** Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. If exposures are excessive, increased mechanical ventilation such as local exhaust may be required.

### Personal Protection

**Respiratory Protection:** None needed under normal use conditions with adequate ventilation. If exposure limits are exceeded, use a NIOSH approved respirator with organic vapor cartridges and particulate pre-filter. Selection of respiratory protection depends on the contaminant type, form and concentration.



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Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

**Eye Protection:** Safety glasses or goggles recommended if splashing is possible.

**Skin/Body Protection:** If there is a potential for skin contact, wear a long sleeved shirt and apron. Neoprene or nitrile rubber boots when necessary to avoid contaminating shoes.

**Hand Protection:** Use nitrile or neoprene gloves recommended to prevent skin contact.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Liquid
<b>Color</b>	Amber
<b>Odor</b>	Slight petroleum odor
<b>Odor Threshold</b>	No data available
<b>pH</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash Point</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper Explosion Limit</b>	No data available
<b>Lower Explosion Limit</b>	No data available
<b>Vapor Pressure</b>	<0.01 mmHg @ 100°F
<b>Vapor Density (Air=1)</b>	>1
<b>Relative Density</b>	0.85-0.87 @ 15.6°C
<b>Solubility</b>	Soluble in alcohols and hydrocarbons; insoluble in water
<b>Partition Coefficient: n-octanol/water</b>	No data available
<b>Auto Ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Volatile Organic Compounds (VOC)</b>	0%
<b>Viscosity</b>	111 cSt @ 40°C (10W-40) 155 cSt (20W-50)

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not expected to be reactive.
<b>Chemical Stability</b>	Stable.
<b>Possibility of Hazardous Reactions</b>	None known.



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<b>Conditions to Avoid</b>	None known.
<b>Incompatible Materials</b>	Avoid contact with strong oxidizing agents.
<b>Hazardous Decomposition Product</b>	Thermal decomposition may produce carbon oxides and unidentified organic compounds.

### 11. TOXICOLOGICAL INFORMATION

#### Potential Health Hazards

**Eye Contact:** Causes eye irritation with redness, tearing and pain.

**Skin Contact:** May cause irritation. Prolonged skin contact may cause drying of the skin.

**Inhalation:** Excessive inhalation of vapors or mists may cause upper respiratory tract irritation and central nervous system effects including headache, dizziness and nausea.

**Ingestion:** Swallowing large amounts may cause gastrointestinal effects including nausea and diarrhea.

**Chronic Effects of Overexposure:** None known.

**Sensitization:** Long chain alkyl thio carbamide metal complex has been found to cause sensitization.

**Mutagenicity:** This product is not expected to cause mutagenic activity.

**Reproductive Toxicity:** This product is not expected to cause reproductive or developmental effects.

**Carcinogenicity:** None of the components of this product are listed as a carcinogen or suspected carcinogen by IARC, NTP, or OSHA.

#### Acute Toxicity:

Hydrotreated paraffinic petroleum distillate	Oral rat LD50 >5000 mg/kg, Dermal rabbit LD50 >2000 mg/kg
Synthetic base oil	Oral rat LD50 >5000 mg/kg, Dermal rabbit LD50 >2000 mg/kg, Inhalation rat LC50 >5 mg/L/4hr
Multifunctional Additive Package	Oral rat LD50 >10,000 mg/kg
Zinc dialkyl dithiophosphate	Oral rat LD50 3100 mg/kg, Inhalation rat LC50 >2.3 mg/L/4 hr, Dermal rabbit LD50 >2002 mg/kg
Long chain alkyl thio carbamide metal complex	Oral rat LD50 >5000 mg/kg, Dermal rabbit LD50 >5000 mg/kg, Inhalation rat LC50 >50 mg/L/4 hr

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Hydrotreated paraffinic petroleum distillate	96 hr LL50 fish >100 mg/L, 48 hr EL50 daphnia magna >100 mg/L, 72 hr EL50 green algae >100 mg/L
Synthetic base oil	96 hr LL50 fish >100 mg/L, 48 hr EL50 daphnia magna >100 mg/L, 72 hr EL50 green algae >100 mg/L



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Multifunctional Additive Package	No data available
Zinc dialkyl dithiophosphate	96 hr LL50 Oncorhynchus mykiss 4.5 mg/kg, 48 hr EL50 daphnia magna 23 mg/L, 72 hr EL50 21 mg/L
Long chain alkyl thio carbamide metal complex	96 hr LC50 Oncorhynchus mykiss 405 mg/L, 48 hr EC50 daphnia magna 23 mg/L, 72 hr EC50 Scenedesmus quadricauda 24 mg/L

<b>Biodegradation</b>	Hydrotreated paraffinic petroleum distillate and synthetic base oil are not readily biodegradable
<b>Bioaccumulation</b>	Hydrotreated paraffinic petroleum distillate and synthetic base oil have the potential to bioaccumulate.
<b>Mobility in soil</b>	No data available
<b>Other adverse effects:</b>	None known.

### 13. DISPOSAL CONSIDERATIONS

**Disposal** Dispose in accordance with all local, state and federal regulations.

### 14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			
TDG		Not Regulated			
IMDG		Not Regulated			
IATA		Not Regulated			

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form

**Special precautions:** None known.

### 15. REGULATORY INFORMATION

**CERCLA:** This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**EPA SARA 302:** This product does not contain chemicals regulated under SARA Section 302.

**EPA SARA 311 Hazard Classification:** Acute Health.

**EPA SARA 313:** This product contains the following chemicals that are regulated under SARA Title III, section 313:



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Zinc Compounds                      Proprietary                      <3%  
(Zinc dialkyl dithiophosphate)

**California Proposition 65:** This product contains the following chemicals known to the State of California to cause cancer and reproductive toxicity: None

### Chemical Inventories

**Toxic Substances Control Act:** All of the components of this product are listed on the TSCA inventory

### 16. OTHER INFORMATION

NFPA Rating (NFPA 704):	Health: 2	Fire: 1	Instability: 0
HMIS Rating:	Health: 2	Fire: 1	Physical Hazard: 0

Date of Revision: August 14, 2015

Date of Previous Revision: August 2014

Revision History:

8/14/15: Converted to GHS format. All section revised

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 modifications 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.