

# SAFETY DATA SHEET

US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Issuing Date 10-Apr-2023	Revision Date 10-Apr-2023	Revision Number 1
1. Identification		
Product identifier		
Product Name	SAE 10W-60 Synthetic European Motor Oil	
Other means of identification		
Product Code(s)	ETS	
Synonyms	None	
Recommended use of the chemica	and restrictions on use	
Recommended use	Engine oil	
Restrictions on use	Avoid formation of mists	
Details of the supplier of the safety	data sheet	
Supplier Address AMSOIL INC. Bay Adelaide Centre, East Tower 22 Adelaide St. W Toronto, ON, Canada M5H 4E3 T:+1 877-822-5172	Manufacturer Address AMSOIL INC. One AMSOIL Center Superior, WI 54880, USA T: +1 715-392-7101	
E-mail	compliance@amsoil.com	
Emergency telephone number		
Emergency telephone	CHEMTREC: Within USA and Canada: 1-800-424-9300 Outside the USA and Canada: +1 703-741-5970 (collect calls accepted) 24/7	
2. Hazard(s) identification		

#### **Classification**

This product is not considered hazardous by either the US 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) or the Canadian Workplace Hazardous Material Information System (WHMIS 2015)

#### Label elements

Hazard statements Not classified.

### Other information

Causes mild skin irritation. Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

# 3. Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	84605-29-8	0.5-1.5
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	68457-79-4	0.1-1

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### **Chemical Additions**

The classification as a carcinogen does not apply as it can be shown that the substance(s) contain(s) less than 3% DMSO extract as measured by IP 346.

### 4. First-aid measures

#### **Description of first aid measures**

General advice	Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.	
Skin contact	Wash skin with soap and water. Take off contaminated clothing. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.	
Self-protection of the first aider	Wear personal protective clothing (see section 8).	
Most important symptoms and effe	cts, both acute and delayed	
Symptoms	May cause gastrointestinal discomfort if consumed in large amounts. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization in susceptible persons. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness and difficulty breathing. Prolonged contact may cause redness and irritation.	
Effects of Exposure	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
5. Fire-fighting measures		

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.	
Specific hazards arising from the chemical	Containers can burst or explode when heated, due to excessive pressure build-up. Thermal decomposition can lead to release of irritating gases and vapors.	
Hazardous combustion products	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).	
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.	
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment as required. See section 8 for more information. Ensure adequate ventilation.	
For emergency responders	Use personal protection recommended in Section 8.	
Methods and material for containme	nt and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Clean contaminated surface thoroughly. After cleaning, flush away traces with water.	
Reference to other sections	For additional information see: Section 8: Exposure controls/personal protection; Section 12: Ecological information; Section 13: Disposal considerations.	

### 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with used product. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Do not reuse empty containers. Store away from incompatible materials. See section 10 for more information.

# 8. Exposure controls/personal protection

#### Control parameters

Exposure LimitsUnder conditions which may generate mists, the following exposure limits are<br/>recommended: Long-term exposure limit (8-hour TWA): 5 mg/m³. Short-term exposure limit<br/>(15-minute): 10 mg/m³.

# Biological occupational exposure limits

Appropriate engineering controls			
Engineering controls	Ensure adequate ventilation, especially in confined areas.		
Individual protection measures, suc	ch as personal protective equipment		
Eye/face protection	If there is a risk of contact: Wear safety glasses with side shields (or goggles).		
Hand protection	If there is a risk of contact: Wear suitable gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.		
Skin and body protection	If there is a risk of contact: Wear suitable protective clothing.		
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.		
Environmental exposure controls	Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.		
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.		

# 9. Physical and chemical properties

Information on basic physical and chemical properties

information on basic physical and c	nemical properties	
Appearance		
Physical state	Liquid	
Color	Amber	
Odor	Mild hydrocarbon	
Odor threshold	No information available	
Property	Values	Remarks • Method
рН		No data available
Melting point / freezing point		No data available
Initial boiling point and boiling rang	e	No data available
Flash point	252 °C / 485.6 °F	Cleveland Open Cup ASTM D 92
Evaporation rate		No data available
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive		No data available
limits		
Lower flammability or explosive		No data available
limits		
Vapor pressure		No data available
Vapor density		No data available
Relative density	0.8534	No data available
Water solubility		No data available
Solubility(ies)		No data available
Partition coefficient		No data available
Autoignition temperature		No data available
Decomposition temperature		No data available

Kinematic viscosity	165.7 cSt @ 40 °C 24.2 cSt @ 100 °C	ASTM D445	
Dynamic viscosity		No data available	
Other information Explosive properties Oxidizing properties Softening point Pour Point Fire Point Molecular weight VOC content Liquid Density Bulk density	No information available. No information available. No information available -33 °C [ASTM D 97] 271 °C (COC)[ASTM D 92] No information available No information available No information available No information available		
	-		

# 10. Stability and reactivity

Reactivity	None under normal use conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available. Causes mild skin irritation.
Ingestion	Specific test data for the substance or mixture is not available.
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	May cause gastrointestinal discomfort if consumed in large amounts. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization in susceptible persons. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness and difficulty breathing. Prolonged contact may cause redness and irritation.
Acute toxicity	
Numerical measures of toxicity	
The following values are calculate	d based on chapter 3.1 of the GHS document:

ATEmix (oral)	246,031.70 mg/kg
ATEmix (dermal)	5,086.40 mg/kg

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr)	= 3100 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.3 mg/L (Rat)4 h
esters, zinc salts	= 3200 mg/kg (Rat)		
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc	= 3600 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	-
salts			

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. Causes mild skin irritation.		
Component Information			
Phosphorodithioic acid, mixed O,O-bis	(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)		
Method	OECD Test No. 404: Acute Dermal Irritation/Corrosion		
Species	Rabbit		
Exposure route	Dermal		
Effective dose	0.5 mL		
Exposure time	4 hours		
Results	Irritant		

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts (68457-79-4)

# Serious eye damage/eye irritation No information available.

Component Information		
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts (84605-29-8)		
Species	Rabbit	
Exposure route	Eye	
Effective dose	0.1 mL	
Results	Eye Damage	

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts (68457-79-4)		
Method	OECD Test No. 405: Acute Eye Irritation/Corrosion	
Species	Rabbit	
Exposure route	Eye	
Effective dose	0.1 mL	
Results	Eve Damage	

Respiratory or skin sensitization	No information available.	
Germ cell mutagenicity	No information available.	
Carcinogenicity	The supplier declares that it can be shown that the substance(s) contain less than 3% DMSO extract as measured by IP 346.	
Reproductive toxicity	No information available.	
STOT - single exposure	No information available.	
STOT - repeated exposure	No information available.	
Aspiration hazard	Due to the viscosity, this product does not present an aspiration hazard.	
12. Ecological information		

#### (M)SDS Number UL-ASL-432

#### Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts 84605-29-8	-	LC50: =4.5mg/L (96h, Oncorhynchus mykiss)	-	EC50: =23mg/L (48h, Daphnia magna)
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts 68457-79-4	EC50: 1.0 - 5.0mg/L (96h, Pseudokirchneriella subcapitata)	LC50: >100mg/L (96h, Pimephales promelas) LC50: 25 - 50mg/L (96h, Pimephales promelas)	-	EC50: 4.0 - 6.0mg/L (48h, Daphnia magna)

Persistence and degradability

No information available.

### Bioaccumulation

#### **Component Information**

Chemical name	Partition coefficient
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and	0.56
iso-Pr) esters, zinc salts	
84605-29-8	
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters,	0.69
zinc salts	
68457-79-4	

#### Other adverse effects

No information available.

# 13. Disposal considerations

# Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations, Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Do not reuse empty containers.	
California waste information	This product contains one or more substances that are listed with the State of California as a hazardous waste.	

# 14. Transport information

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG	Not regulated

### 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

#### The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

#### The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

#### International Inventories

Contact supplier for inventory compliance status

\*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

#### US Federal Regulations

#### <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and	1.0
iso-Pr) esters, zinc salts - 84605-29-8	
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters,	1.0
zinc salts - 68457-79-4	

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts 84605-29-8	-	X	-	-
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts 68457-79-4	-	Х	-	-

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
Ethylbenzene - 100-41-4	Carcinogen

Ethane-1,2-diol - 107-21-1	Developmental
Toluene - 108-88-3	Developmental
Benzene - 71-43-2	Carcinogen Developmental
	Male Reproductive
Naphthalene - 91-20-3	Carcinogen

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts 84605-29-8	Х	-	Х
Hydrogenated base oil 64742-55-8	-	X	-
Hydrogenated base oil 64742-56-9	-	X	-
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts 68457-79-4	Х	-	Х
Hydrogenated base oil 64742-70-7	-	X	-
Ethylbenzene 100-41-4	Х	X	Х
Ethane-1,2-diol 107-21-1	Х	X	Х
Toluene 108-88-3	Х	X	Х
Naphthalene 91-20-3	Х	X	Х
Benzene 71-43-2	Х	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

	Legend Section 8 TWA Ceiling	3: EXPOSURE CONTROLS/PERSONAL TWA (time-weighted average) Maximum limit value	PROTECTION STEL *	STEL (Short Term Exposure Limit) Skin designation		
	Key literature references and sources for data used to compile the SDS U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))					
	U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals					
	Food Research Jo					
	Hazardous Substa	ance Database				
	International Unifo	rm Chemical Information Database (IUC	LID)			

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

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### Revision Note Initial Release.

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### End of Safety Data Sheet