

SAFETY DATA SHEET

Category 2A

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 14-Aug-2022	Revision Date	14-Aug-2022	Revision Number 1
1. Identification			
Product identifier			
Product Name	AMSOIL Premium Prote	ction Synthetic SAE 20W-50 Motor Oil	
Other means of identification			
Product Code(s)	ARO		
Synonyms	None		
Recommended use of the che	mical and restrictions on use	-	
Recommended use	Engine oil		
Restrictions on use	Avoid formation of mists	i de la construcción de la constru	
Details of the supplier of the s	afety data sheet		
Initial supplier identifier 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		
<u>E-mail</u>	compliance@amsoil.cor	n	
Emergency telephone number	-		
Emergency telephone		A and Canada: 1-800-424-9300 anada: +1 703-741-5970 24/7	

2. Hazard(s) identification

Classification

Serious eye damage/eye irritation

Label elements

Warning

Hazard statements Causes serious eye irritation.



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Wear eye and face protection. **Precautionary Statements - Response**

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.

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-%	Information Review	Date HMIRA filed and date exemption granted (if applicable)
bis(nonylphenyl)amine	36878-20-3	1-5	-	-
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	84605-29-8	1-5	-	-

*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	Show this safety data sheet to the doctor in attendance. Get medical attention if irritation or other symptoms occur.
Inhalation	Remove person to fresh air and keep comfortable for breathing.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

	persists.		
Skin contact	Wash skin with soap and water. Take off contaminated clothing and wash before reuse. Ge medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.		
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).		
Most important symptoms and effe	ects, both acute and delayed		
Symptoms	May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation. May cause gastrointestinal discomfort if consumed in large amounts. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness and difficulty breathing.		
Indication of any immediate medica	al 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	Thermal decomposition can lead to release of irritating gases and vapors. Containers can burst or explode when heated, due to excessive pressure build-up.		
Hazardous combustion products	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).		
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	ot 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 meas	sures		

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See section 8 for more information. Ensure adequate ventilation.		
Other information	Refer to protective measures listed in Sections 7 and 8.		
For emergency responders	Use personal protection recommended in Section 8.		
Methods and material for containm	ment 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 skin, eyes or clothing. 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, includi	ng any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from physical damage. Do not reuse empty containers. Keep away from Incompatible materials. See section 10 for more information. Store in accordance with local regulations.

8. Exposure controls/personal protection

Control parameters	
Exposure Limits	Under conditions which may generate mists, the following exposure limits are recommended: Long-term exposure limit (8-hour TWA): 5 mg/m ³ . Short-term exposure limit (15-minute): 10 mg/m ³ .
Biological occupational exposure limits	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.
Appropriate engineering controls	
Engineering controls	Apply technical measures to comply with the occupational exposure limits. 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.
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.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Color	Brown
Odor	Mild hydrocarbon
Odor threshold	No information available

Property pH Melting point / freezing point Initial boiling point and boiling rang Flash point Evaporation rate Flammability Flammability Limit in Air	<u>Values</u> ge 230 °C / 446 °F	Remarks • Method No data available No data available No data available Cleveland Open Cup ASTM D 92 No data available No data available
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
Vapor pressure		No data available
Vapor density		No data available
Relative density	0.8708	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	160.3 cSt at 40 ⁰C 19.5 cSt at 100 ⁰C	ASTM D445
Dynamic viscosity		No data available
Other information		
Explosive properties	No information available.	
Oxidizing properties	No information available.	
Softening point	No information available	
Pour Point	-35°C [ASTM D 97]	
Fire Point	248°C (COC) [ASTM D 92]	
Molecular weight	No information available	
VOC content	No information available	
Liquid Density	No information available	
Bulk density	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	S 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

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

- Skin contactSpecific test data for the substance or mixture is not available. May cause irritation.Prolonged contact may cause redness and irritation. Causes mild skin irritation.
- Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

SymptomsMay cause redness and tearing of the eyes. Prolonged contact may cause redness and
irritation. Ingestion causes severe swelling, severe damage to the delicate tissue and
danger of perforation. Symptoms of overexposure are dizziness, headache, tiredness,
nausea, unconsciousness and difficulty breathing.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:ATEmix (dermal)7,266.80 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
bis(nonylphenyl)amine	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
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)		

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		

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

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		

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.	
Aspiration hazard	Due to the viscosity, this product does not present an aspiration hazard.	

12. Ecological information

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
bis(nonylphenyl)amine 36878-20-3	-	LC50: >1000mg/L (96h, Pimephales promelas)	-	-
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)

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	

Mobility in soil

No information available.

Other adverse effects

No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products	Dispose of waste in accordance with environmental legislation, Dispose of in accordance with local regulations.	
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

SARA 313

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	

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	-	-

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
Benzene - 71-43-2	Carcinogen

	Developmental Male Reproductive
Ethylbenzene - 100-41-4	Carcinogen
Toluene - 108-88-3	Developmental
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	X	-	X
Diphenylamine 122-39-4	Х	X	Х
2-methylpropan-1-ol 78-83-1	Х	X	Х
Nonane 111-84-2	Х	X	X
Hydrogen sulphide 7783-06-4	Х	X	X
Benzene 71-43-2	Х	X	X
Ethylbenzene 100-41-4	Х	X	X
Toluene 108-88-3	Х	X	Х
Naphthalene 91-20-3	Х	Х	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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

Legend Section 8 TWA Ceiling	3: EXPOSURE CONTROLS/PERSONAL PRC TWA (time-weighted average) Maximum limit value	OTECTION STEL *	STEL (Short Term Exposure Limit) Skin designation		

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