

# 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 07-Dec-2022	Revision Date 07-Dec-2022	Revision Number 1
1. Identification		
Product identifier		
Product Name	AMSOIL Synthetic V-Twin Primary Fluid	
Other means of identification		
Product Code(s)	MVP	
Synonyms	None	
Recommended use of the che	mical and restrictions on use	
Recommended use	Lubricating Oil	
Restrictions on use	Avoid formation of mists	
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.com	
Emergency telephone number		
Emergency telephone	CHEMTREC: Within USA and Canada: 1-800 Outside the USA and Canada: +1 703-741-59 (collect calls accepted) 24/7	
2. Hazard(s) identification	tion	
Classification		

### **Classification**

Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 2

### Label elements

### Warning

### Hazard statements

Causes serious eye irritation. Suspected of damaging fertility or the unborn child.



### **Precautionary Statements - Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and face protection. Wash face, hands and any exposed skin thoroughly after handling. **Precautionary Statements - Response** 

IF exposed or concerned: Get medical advice/attention.

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.

Precautionary Statements - Storage

Store locked up.

### Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant.

### Other information

No information available.

# 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)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	1-5	-	-
Zinc Dialkyl Dithiophosphate	-	0.1-1	-	-
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	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. Get 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	cts, both acute and delayed	
Symptoms	May cause redness and tearing of the eyes. Burning sensation. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization in susceptible persons. 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 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 mea	Surge	

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.	
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	ent 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 Conditions for safe storage, includ	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with used product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Wash hands thoroughly after handling.
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not reuse empty
	containers. Keep out of the reach of children. Store away from incompatible materials. See section 10 for more information. Store locked up. Store in accordance with local regulations.
8. Exposure controls/pers	onal 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 <sup>3</sup> . Short-term exposure limit (15-minute): 10 mg/m <sup>3</sup> .
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	Ensure adequate ventilation, especially in confined areas.
Individual protection measures, su	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.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Color	Amber
Odor	Mild hydrocarbon

Odor threshold	No information available	
<u>Property</u> pH Melting point / freezing point Initial boiling point and boiling rang Flash point Evaporation rate Flammability	<u>Values</u> ge 238 °C / 460.4 °F	Remarks • Method No data available No data available No data available Cleveland Open Cup ASTM D 92 No data available No data available
Flammability Limit in Air Upper flammability or explosive limits Lower flammability or explosive limits		No data available No data available
Vapor pressure Vapor density Relative density Water solubility	0.8745	No data available No data available No data available No data available
Solubility(ies) Partition coefficient Autoignition temperature Decomposition temperature		No data available No data available No data available No data available
Kinematic viscosity Dynamic viscosity	147.9 cSt at 40 ⁰C 18.8 cSt at 100 ºC	ASTM D445 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 -35°C [ASTM D 97] 258°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

### **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 contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and 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 p	physical, chemical and toxicological characteristics
Symptoms	May cause redness and tearing of the eyes. 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.

### Acute toxicity

### Numerical measures of toxicity

### The following values are calculated based on chapter 3.1 of the GHS document:

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Benzenamine, N-phenyl-, reaction	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
products with 2,4,4-trimethylpentene			
Phosphorodithioic acid, mixed	= 3600 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	-
O,O-bis(iso-Bu and pentyl) esters, zinc			
salts			

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

Skin corrosion/irritation	May cause skin irritation.
Component Information	
Benzenamine, N-phenyl-, reaction pro	ducts with 2,4,4-trimethylpentene (68411-46-1)
Method	OECD Test No. 404: Acute Dermal Irritation/Corrosion
Species	Rabbit
Exposure route	Dermal
Effective dose	0.5 mL
Exposure time	4 hours
Results	Mild skin irritant

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

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

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)			
Method	OECD Test No. 405: Acute Eye Irritation/Corrosion		
Species	Rabbit		
Exposure route	Eye		
Effective dose	0.1 mL		
Results	s non-irritant		

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			
pecies 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	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.
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

### Ecotoxicity

Large or frequent spills may have hazardous effects on the environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	EC50: 51mg/L (48h, Daphnia magna)	LC50: >100mg/L (96h, Danio rerio)	-	-
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 info

# No information available.

### Bioaccumulation

### **Component Information**

Chemical name		Partition coefficient
Benzenamine, N-phenyl-, reaction products with		6.66
2,4,4-trimethylpentene		
68411-46-1		
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters,		0.69
zinc salts		
	68457-79-4	
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 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

#### 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(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(iso-Bu and pentyl) esters, zinc salts 68457-79-4		X	-	-

### <u>CERCLA</u>

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 does not contain any Proposition 65 chemicals.

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Phosphorodithioic acid, mixed	Х	-	Х
O,O-bis(iso-Bu and pentyl)			
esters, zinc salts			
68457-79-4			
Hydrogenated base oil	-	Х	-
64742-70-7			
Diphenylamine	Х	Х	Х
122-39-4			

### U.S. EPA Label Information

### EPA Pesticide Registration Number Not applicable

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

	-	-				
<u>Legend Section 8</u> TWA Ceiling	: 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 Federal Insecticide, Fungicide, and Rodenticide Act         U.S. Environmental Protection Agency High Production Volume Chemicals         Food Research Journal         Hazardous Substance Database         International Uniform Chemical Information Database (IUCLID)         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 Environment, Health, and Safety Publications         Organization for Economic Co-operation and Development Environment, Health, and Safety Publications         Organization for Economic Co-operation and Development Environment, Health, and Safety Publications </td						
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<b>Revision Note</b>	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