

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	21-Feb-2019	Revision Date 29-Jul-2021	Revision Number 2
1. Identific	ation		
Product ident	<u>ifier</u>		
Product Name	9	Signature Series Max-Duty Synthetic SAE 10W-30 Diesel Oil	
Other means	of identification		
Product Code	(s)	DTT	
Synonyms		None	
<u>Recommende</u>	ed use of the chen	nical and restrictions on use	
Recommende	ed use	Diesel oil	
Restrictions of	on use	Avoid formation of mists.	
Details of the	supplier of the sa	fety data sheet	
Supplier Adde AMSOIL INC. 14328-121A A Edmonton, AB T: 877-830-47 E-mail Emergency te Emergency te	ve T5L 2T2 69 elephone number	Manufacturer Address AMSOIL INC. One AMSOIL Center Superior, WI 54880, USA T: +1 715-392-7101 compliance@amsoil.com 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

May be harmful in contact with skin. 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-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	84605-29-8	0.1-1	-	-
Phenol, dodecyl-, branched	121158-58-5	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 person to fresh air and keep 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.
Most important symptoms and effects, both acute and delayed	
Symptoms	Prolonged contact may cause redness and irritation. May cause temporary eye irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. 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 impact 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 meas	sures
Personal precautions, protective eq	uipment 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	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 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 ConditionsKeep container tightly closed in a dry and well-ventilated place. Do not reuse empty
containers. Store away from incompatible materials. See section 10 for more information.
Protect from physical damage.

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	This product, as supplied, does not contain any hazardous materials with biological limits

limits	established by the region specific regulatory bodies.
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.
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

Appearance		
Physical state	Liquid	
Color	Brown	
Odor	Mild hydrocarbon	
Odor threshold	No information available	
<u>Property</u> pH Melting point / freezing point Initial boiling point and boiling range	<u>Values</u>	Remarks • Method No data available No data available No data available
Flash point	230 °C / 446 °F	Cleveland Open Cup ASTM D 92
Evaporation rate	200 0 / 110 1	No data available
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive		No data available
limits		
Lower flammability or explosive limits		No data available
Vapor pressure		No data available
Vapor density		No data available
Relative density	0.8550	No data available
Water solubility	0.0000	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	78.2 cSt at 40 ℃	ASTM D445
·····,	12.1 cSt at 100 °C	
Dynamic viscosity		No data available
Other information		
Explosive properties	No information available.	
Oxidizing properties	No information available.	
Softening point	No information available	

Pour Point	-42ºC [ASTM D 97]
Fire Point	250°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	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. May be harmful in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available.
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Prolonged contact may cause redness and irritation. May cause temporary eye irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness and difficulty breathing.
Acute toxicity	

 Numerical measures of toxicity

 No information available

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

 ATEmix (oral)
 8,431.70 mg/kg

 ATEmix (dermal)
 3,372.70 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	= 3100 mg/kg(Rat) = 3200 mg/kg(Rat)	> 2000 mg/kg (Rabbit)	> 2.3 mg/L (Rat)4 h
Phenol, dodecyl-, branched	-	= 15000 mg/kg (Rabbit)	-

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. May cause 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	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	

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.

The table below indicates whether each agency has listed any ingredient as a carcinogen. Legend

A2 - Suspected Human Carcinoge IARC (International Agency for I Group 1 - Carcinogenic to Humar NTP (National Toxicology Progr Known - Known Carcinogen	Research on Cancer)
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

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)

Persistence and degradability

No information available.

Bioaccumulation

Component Information

Derition coefficient O.56 Dele.	
ble.	
ble.	
Dispose of in accordance with local regulations, Dispose of waste in accordance with environmental legislation.	
Do not reuse empty containers.	
This product contains one or more substances that are listed with the State of California as a hazardous waste.	
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14. Transport information

<u>DOT</u>	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

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Hydrogenated base oil	72623-87-1	Present	Active
Hydrogenated base oil	72623-87-1	Present	Active
non hazardous ingredient	-		
Hydrogenated base oil	64742-54-7	Present	Active
Hydrogenated base oil	64742-65-0	Present	Active
Hydrogenated base oil	64742-54-7	Present	Active
Zinc alkyldithiophosphate	CONFIDENTIAL		
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	84605-29-8	Present	Active
Phenol, dodecyl-, branched	121158-58-5		

Hydrogenated base oil(s)	-		
2-methylpropan-1-ol	78-83-1	Present	Active
Unknown acute tox inhalation	-		
Nonane	111-84-2	Present	Active
Ethylene oxide	75-21-8	Present	Active
Benzene	71-43-2	Present	Active
Naphthalene	91-20-3	Present	Active
Ethylbenzene	100-41-4	Present	Active
Toluene	108-88-3	Present	Active

*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
Ethylene oxide - 75-21-8	Carcinogen Developmental
	Female Reproductive Male Reproductive
Naphthalene - 91-20-3	Carcinogen
Ethylbenzene - 100-41-4	Carcinogen
Toluene - 108-88-3	Developmental

Benzene - 71-43-2	Carcinogen
	Developmental
	Male Reproductive

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
2-methylpropan-1-ol 78-83-1	Х	Х	Х
Nonane 111-84-2	Х	Х	Х
Ethylene oxide 75-21-8	Х	Х	Х
Benzene 71-43-2	Х	Х	Х
Naphthalene 91-20-3	Х	Х	Х
Ethylbenzene 100-41-4	Х	Х	Х
Toluene 108-88-3	Х	Х	Х

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 Sec	tion 8: EXPOSURE CONTROLS/PERSONAL	PROTECTION	
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

U.S. Environmental Protection Age European Food Safety Authority (I EPA (Environmental Protection Age Acute Exposure Guideline Level(s) U.S. Environmental Protection Age U.S. Environmental Protection Age Food Research Journal Hazardous Substance Database International Uniform Chemical Info Japan GHS Classification Australia National Industrial Chemi NIOSH (National Institute for Occu National Library of Medicine's Che National Toxicology Program (NTF New Zealand's Chemical Classifica Organization for Economic Co-ope Organization for Economic Co-ope	(AEGL(s)) (AEGL(s)) ncy Federal Insecticide, Fungicide, and Rodenticide Act ncy High Production Volume Chemicals formation Database (IUCLID) cals Notification and Assessment Scheme (NICNAS) pational Safety and Health) nID Plus (NLM CIP)

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Revision Date

29-Jul-2021

Revision Note

SDS sections updated: 3.

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