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SAFETY DATA SHEET	Revision Date: 06/05/2017
	Print Date: 10/26/2017
	SDS Number: R0091437
Valvoline <sup>™</sup> High Performance SAE 80W-90 Gear Oil <sup>™</sup> Trademark, Valvoline or its subsidiaries, registered in various countries 871800	Version: 1.8

### 29 CFR 1910.1200 (OSHA HazCom 2012) SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

:

# **Product identifier**

Trade name

Valvoline<sup>™</sup> High Performance SAE 80W-90 Gear Oil

™ Trademark, Valvoline or its subsidiaries, registered in various countries

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-VALVOLINE (1-800-825-8654)
Valvoline LLC	
100 Valvoline Way	Regulatory Information Number
Lexington, KY 40509	1-800-TEAMVAL
United States of America (USA)	
1-800-TEAMVAL	Product Information
	1-800-TEAMVAL

# SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin sensitization	: Category 1
GHS label elements Hazard pictograms	
Signal Word	: Warning
Hazard Statements	: May cause an allergic skin reaction.
Precautionary Statements	<ul> <li>Prevention: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.</li> <li>Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.</li> <li>Disposal: Dispose of contents/ container to an approved waste disposal</li> </ul>



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plant.

# Other hazards

None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

nazaruous components			
Chemical name	CAS-No.	Classification	Concentration (%)
OLEFINSULFIDE	68937-96-2	Skin Sens. 1B; H317	2.5335
React. prod. of bis(2- methylpentan-2- yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)		Flam. Liq. 4; H227 Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317	0.6428

# **SECTION 4. FIRST AID MEASURES**

General advice	<ul> <li>Move out of dangerous area.</li> <li>Show this safety data sheet to the doctor in attendance.</li> <li>Do not leave the victim unattended.</li> </ul>
If inhaled	<ul> <li>If breathed in, move person into fresh air.</li> <li>If unconscious, place in recovery position and seek medical advice.</li> <li>If symptoms persist, call a physician.</li> </ul>
In case of skin contact	<ul> <li>Remove contaminated clothing. If irritation develops, get medical attention.</li> <li>If on skin, rinse well with water.</li> <li>First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.</li> <li>Wash contaminated clothing before re-use.</li> </ul>
In case of eye contact	<ul> <li>Flush eyes with water as a precaution.</li> <li>Remove contact lenses.</li> <li>Protect unharmed eye.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>



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If swallowed	<ul> <li>Do not give milk or alcoholic beverages.</li> <li>Never give anything by mouth to an unconscious person.</li> <li>If symptoms persist, call a physician.</li> </ul>
Most important symptoms and effects, both acute and delayed	: May cause an allergic skin reaction. No symptoms known or expected.
Notes to physician	: No hazards which require special first aid measures.

# **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media		g measures that are appropriate to local nd the surrounding environment. CO2)
Unsuitable extinguishing media	ligh volume wat	er jet
Specific hazards during firefighting	o not allow run- ourses.	off from fire fighting to enter drains or water
Hazardous combustion products	arbon dioxide a lydrocarbons sulphur oxides	nd carbon monoxide
Specific extinguishing methods		
	roduct is compa	atible with standard fire-fighting agents.
Further information		d contaminated fire extinguishing water must accordance with local regulations.
Special protective equipment for firefighters	n the event of fir	e, wear self-contained breathing apparatus.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	: Use personal protective equipment.
protective equipment and	Persons not wearing protective equipment should be excluded
emergency procedures	from area of spill until clean-up has been completed.



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Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
Other information	:	Comply with all applicable federal, state, and local regulations.

# SECTION 7. HANDLING AND STORAGE

Advice on safe handling	<ul> <li>Do not breathe vapours/dust. Do not smoke.</li> <li>Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.</li> <li>Container hazardous when empty.</li> <li>Avoid exposure - obtain special instructions before use.</li> <li>Avoid contact with skin and eyes.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>For personal protection see section 8.</li> <li>Dispose of rinse water in accordance with local and national regulations.</li> </ul>
Conditions for safe storage	<ul> <li>Keep container tightly closed in a dry and well-ventilated place.</li> <li>Containers which are opened must be carefully resealed and kept upright to prevent leakage.</li> </ul>

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# Hazardous components without workplace control parameters

Components	CAS-No.
OLEFINSULFIDE	68937-96-2
React. prod. of bis(2-	
methylpentan-2-	
yl)dithiophosphoricacid +	
phosphorus oxide, propylene	



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oxide and amines, C12-14-alkyl (branched)	
Engineering measures :	Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.
Personal protective equipment Respiratory protection :	Respiratory protection is not required under normal conditions of use.
Hand protection Remarks :	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection :	Not required under normal conditions of use. Wear splash- proof safety goggles if material could be misted or splashed into eyes.
Skin and body protection :	Wear as appropriate: Impervious clothing Safety shoes Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or signs of wear. Wear resistant gloves (consult your safety equipment supplier).
Hygiene measures :	Wash hands before breaks and at the end of workday.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Colour	: amber
Odour	: No data available
Odour Threshold	: No data available
рН	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: > 424.9 °F / 218.3 °C (1013.333 hPa)



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Flash point	:	> 432 °F / > 222 °C Method: Cleveland open cup
Evaporation rate	:	> 1 Ethyl Ether
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	< 0.1000000 mmHg
Relative vapour density	:	> 1AIR=1
Relative density	:	0.89 (60.00 °F)
Density	:	0.8916 g/cm3 (15.56 °C)
Solubility(ies) Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Thermal decomposition	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	146 mm2/s (40 °C)
Oxidizing properties	:	No data available

# SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Product will not undergo hazardous polymerization.



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Conditions to avoid	: None known.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	carbon dioxide and carbon monoxide Sodium oxides

# SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : exposure	Inhalation Skin contact Eye Contact Ingestion
Acute toxicity	
Not classified based on available	e information.
<u>Components:</u> OLEFINSULFIDE:	
	<ul> <li>LD50 (Rat): &gt; 2,000 mg/kg Method: OECD Test Guideline 401 Assessment: Not classified as acutely toxic by ingestion under GHS.</li> </ul>
	Remarks: No mortality observed at this dose.
Acute dermal toxicity	<ul> <li>LD50 (Rat): &gt; 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: Not classified as acutely toxic by dermal absorption under GHS. Remarks: No mortality observed at this dose.</li> </ul>
oxide and amines, C12-14-alkyl	an-2-yl)dithiophosphoricacid + phosphorus oxide, propylene (branched): : LD50 (Rat): ca. 2,000 mg/kg

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## Skin corrosion/irritation

Not classified based on available information. <u>Product:</u> Remarks: May cause skin irritation in susceptible persons.

# **Components:**

OLEFINSULFIDE: Result: Mild skin irritation



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#### Serious eye damage/eye irritation

Not classified based on available information. <u>Product:</u> Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Remarks: Unlikely to cause eye irritation or injury.

## Components:

OLEFINSULFIDE: Result: Slight, transient irritation

React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched): Result: Corrosive

#### Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction. Respiratory sensitisation: Not classified based on available information. Components: OLEFINSULFIDE: Test Type: Maximisation Test Species: Guinea pig Assessment: The product is a skin sensitiser, sub-category 1B. Method: OECD Test Guideline 406

React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched): Test Type: Local lymph node assay Species: Mouse Method: OECD Test Guideline 429 Result: May cause sensitisation by skin contact.

Germ cell mutagenicity Not classified based on available information.

## Components:

OLEFINSULFIDE:	
Genotoxicity in vitro	: Test Type: in vitro assay
	Result: Positive results were obtained in some in vitro tests.
Genotoxicity in vivo	: Test Type: Micronucleus test
-	Test species: Mouse
	Cell type: Bone marrow
	Method: OECD Test Guideline 474
	Result: negative

### **Carcinogenicity** Not classified based on available information.

Reproductive toxicity

Not classified based on available information.



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STOT - single exposure Not classified based on available information. STOT - repeated exposure Not classified based on available information. Aspiration toxicity Not classified based on available information. <u>Product:</u> No aspiration toxicity classification Further information

Product: Remarks: No data available

Carcinogenicity: IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

# SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity <u>Product:</u> Ecotoxicology Assessment Acute aquatic toxicity	: Acute aquatic toxicity Category 3; Harmful to aquatic life.	
Chronic aquatic toxicity	: Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.	
<u>Components:</u> OLEFINSULFIDE: Ecotoxicology Assessment Acute aquatic toxicity	: Harmful to aquatic life.	
Chronic aquatic toxicity	: Harmful to aquatic life with long lasting effects.	
React. prod. of bis(2-methylper oxide and amines, C12-14-alky Toxicity to fish	<ul> <li>tan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene</li> <li>(branched):</li> <li>LL50 (Oncorhynchus mykiss (rainbow trout)): ca. 24 mg/l Exposure time: 96 h Test Type: static test</li> </ul>	



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	Test substance: WAF Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	<ul> <li>EL50 (Water flea (Daphnia magna)): ca. 91.4 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202</li> </ul>
Toxicity to algae	<ul> <li>ErC50 (Pseudokirchneriella subcapitata (green algae)): 15 mg/l</li> <li>End point: Growth inhibition</li> <li>Exposure time: 96 h</li> <li>Test Type: static test</li> <li>Method: OECD Test Guideline 201</li> </ul>
	NOEC (Pseudokirchneriella subcapitata (green algae)): 3.3 mg/l End point: Growth inhibition Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	<ul> <li>NOEC (Water flea (Daphnia magna)): 0.12 mg/l Exposure time: 21 d End point: Reproduction Test Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 211</li> </ul>
Ecotoxicology Assessment Acute aquatic toxicity	: Toxic to aquatic life.
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.
Persistence and degradability <u>Components:</u> OLEFINSULFIDE: Biodegradability	<ul> <li>Result: Not readily biodegradable.</li> <li>Biodegradation: 13 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301B</li> </ul>
React. prod. of bis(2-methylper oxide and amines, C12-14-alky Biodegradability	<ul> <li>tan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene</li> <li>I (branched):</li> <li>Result: Not readily biodegradable.</li> <li>Biodegradation: 7.4 %</li> <li>Exposure time: 28 d</li> <li>Method: Modified Sturm Test</li> </ul>



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No data available <b>Bioaccumulative potential</b> <u>Components:</u> React. prod. of bis(2-methylpent oxide and amines, C12-14-alkyl Partition coefficient: n- octanol/water	
No data available	
Mobility in soil	
Components:	
No data available	
Other adverse effects	
No data available	
Product:	
Additional ecological	: An environmental hazard cannot be excluded in the event of
information	unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.
Components:	

# **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods	
General advice	<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> <li>Send to a licensed waste management company.</li> <li>Dispose of in accordance with all applicable local, state and federal regulations.</li> </ul>
Contaminated packaging	<ul> <li>Empty remaining contents.</li> <li>Dispose of as unused product.</li> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>Do not re-use empty containers.</li> </ul>

## **SECTION 14. TRANSPORT INFORMATION**

# International transport regulations

## REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	POLLUTANT /
					LTD. QTY.

# U.S. DOT - ROAD



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Not dangerous goods

## CFR\_RAIL\_C

Not dangerous goods

## U.S. DOT - INLAND WATERWAYS

Not dangerous goods

#### TDG\_ROAD\_C

Not dangerous goods

#### TDG\_RAIL\_C

Not dangerous goods

#### TDG\_INWT\_C

Not dangerous goods

#### INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

## INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

## INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

#### MX\_DG

Not dangerous goods

#### \*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant		no	
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.



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## SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA Reportable Quantity This material does not contain any components with a CERCLA RQ. SARA 304 Extremely Hazardous Substances Reportable Quantity This material does not contain any components with a section 304 EHS RQ.					
SARA 311/312 Hazards	:	Acute Health Hazard			
SARA 313		This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.			
California Prop 65		This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.			
The components of this product are reported in the following inventories:					
DSL	:	All components of this product are on the Canadian DSL			
AICS	:	On the inventory, or in compliance with the inventory			
ENCS	:	On the inventory, or in compliance with the inventory			
KECI	:	On the inventory, or in compliance with the inventory			
PICCS	:	On the inventory, or in compliance with the inventory			
IECSC	:	On the inventory, or in compliance with the inventory			
TSCA	:	On TSCA Inventory			

#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

# SECTION 16. OTHER INFORMATION

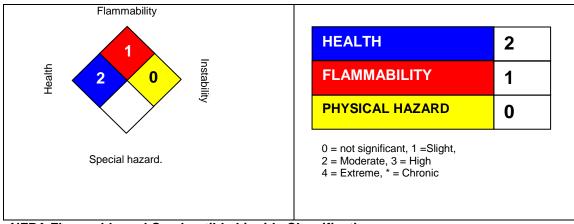
#### Further information

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NFPA:

HMIS III:

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NFPA Flammable and Combustible Liquids Classification Combustible Liquid Class IIIB

### Full text of H-Statements

H227	Combustible liquid.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

Sources of key data used to compile the Safety Data Sheet Valvoline internal data including own and sponsored test reports The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-VALVOLINE).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

**BEI : Biological Exposure Index** 

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

- CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
- FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.



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IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization" IMDG : International Maritime Code for Dangerous Goods ISO : International Organization for Standardization logPow : octanol-water partition coefficient LCxx : Lethal Concentration, for xx percent of test population LDxx : Lethal Dose, for xx percent of test population. ICxx : Inhibitory Concentration for xx of a substance Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified OECD : Organization for Economic Co-operation and Development **OEL** : Occupational Exposure Limit P-Statement : Precautionary Statement PBT : Persistent, Bioaccumulative and Toxic **PPE : Personal Protective Equipment** STEL : Short-term exposure limit STOT : Specific Target Organ Toxicity TLV : Threshold Limit Value TWA : Time-weighted average vPvB : Very Persistent and Very Bioaccumulative WEL : Workplace Exposure Level CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System