Valvoline™ LIGHT & HD GEAR OIL 80W90 Gear Oil

# Version: 11.0Revision Date: 24.09.2021Print Date: 14/09/2022

#### Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_GB SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
Trade name	Valvoline™ LIGHT & HD GEAR OIL 80W90 Gear Oil

Product code : 868217

#### **1.2 Relevant identified uses of the substance or mixture and uses advised against** Recommended use : Engine, gear & lubricating oil.

1.3 Details of the supplier of the safety data sheet	<b>1.4 Emergency telephone number</b> 00-800-825-8654 / 001-859-202-3865, or contact your local emergency telephone number at 112
SDS@valvoline.com	Product Information

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### 2.2 Label elements

#### 2.3 Other hazards

#### Additional advice

No information available.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
	EC-No.	(REGULATION (EC)	
	Registration number	No 1272/2008)	
METHACRYLATE			>= 1,00 - < 2,50
COPOLYMER			
Di-tert-butyl polysulfide	68937-96-2		>= 1,00 - < 2,50
	273-103-3		

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	01-2119540515-43-xxxx			
Amines, C10-14-tert- alkyl	701-175-2		>= 0,025 - < 0,10	
(Z)-octadec-9- enylamine, C16-18- (even numbered, saturated and unsaturated)- alkylamines	1213789-63-9 01-2119473797-19-xxxx		>= 0,025 - < 0,10	

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice	: No hazards which require special first aid measures.		
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	: First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.		
In case of eye contact	: Remove contact lenses. Protect unharmed eye.		
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>		
4.2 Most important symptoms and effects, both acute and delayed			
Symptoms	: No symptoms known or expected.		

- 4.3 Indication of any immediate medical attention and special treatment needed
- Treatment : No hazards which require special first aid measures.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing me	edia : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam

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	Carbon dioxide (CO2) Dry chemical	
5.2 Special hazards arising from	the substance or mixture	
Specific hazards during firefighting	<ul> <li>If product is heated above its fla sufficient to support combustion and may travel along the ground lights, other flames and ignition point of release.</li> <li>Do not allow run-off from fire fig courses.</li> </ul>	<ul> <li>Vapors are heavier than air d and be ignited by heat, pilot sources at locations near the</li> </ul>
Hazardous combustion products	: No hazardous combustion prod	ucts are known
5.3 Advice for firefighters		
-	: In the event of fire, wear self-co	ntained breathing apparatus.
Specific extinguishing methods	: Product is compatible with stand	dard fire-fighting agents.
Further information	: Fire residues and contaminated be disposed of in accordance w	

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, protect	tive equipment and emergency procedures
Personal precautions	: Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Comply with all applicable federal, state, and local regulations.
6.2 Environmental precautions	
Environmental precautions	<ul> <li>Prevent product from entering drains.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>If the product contaminates rivers and lakes or drains inform respective authorities.</li> </ul>
6.3 Methods and material for cor	ntainment and cleaning up
Methods for cleaning up	· Soak up with inert absorbent material (e.g. sand, silica gel

# Methods for 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.

## 6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

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# SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling	:	Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.	
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.	
Hygiene measures	:	General industrial hygiene practice.	
7.2 Conditions for safe storage, including any incompatibilities			

Requirements for storage areas and containers	: Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Advice on common storage	: No materials to be especially mentioned.

: No decomposition if stored and applied as directed.

Other data

7.3 Specific end use(s) Specific use(s) : No data available

## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

#### **Engineering measures**

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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

Eye protection	<ul> <li>Not required under normal conditions of use. Wear splas proof safety goggles if material could be misted or splash into eyes.</li> </ul>	
Skin and body protection	: Wear as appropriate: Safety shoes	
Respiratory protection	: No personal respiratory protective equipment normally required.	

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No personal respiratory protective equipment normally required.

## **SECTION 9: Physical and chemical properties**

9.1	Information on basic physical Appearance	an :	<b>d chemical properties</b> liquid
	Colour	:	amber
	Odour	:	oily
	Odour Threshold	:	No data available
	рН	:	Not applicable
	Pour point	:	< -24 °C
	Boiling point/boiling range	:	No data available
	Flash point	:	192 °C Method: Pensky-Martens closed cup
	Evaporation rate	:	No data available
	Flammability (solid, gas)	:	No data available
	Upper explosion limit / Upper flammability limit	:	No data available
	Lower explosion limit / Lower flammability limit	:	No data available
	Vapour pressure	:	No data available
	Relative vapour density	:	No data available
	Relative density	:	No data available
	Density	:	0,8766 g/cm3 (15,6 °C)
	Solubility(ies) Water solubility	:	insoluble
	Solubility in other solvents	:	No data available
	Partition coefficient: n- octanol/water	:	No data available
	Decomposition temperature	:	No data available

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Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: 134 mm2/s (40 °C)	
Oxidizing properties	: No data available	
<b>9.2 Other information</b> Self-ignition	: > 150 °C	

## **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

No decomposition if stored and applied as directed.

#### **10.2 Chemical stability**

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions	: Product will not undergo hazardous polymerization.
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#### 10.4 Conditions to avoid

Conditions to avoid : None known.

## 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

#### **10.6 Hazardous decomposition products**

Hazardous decomposition : No hazardous decomposition products are known. products

## **SECTION 11: Toxicological information**

11.1 Information on toxicological	effects
Information on likely routes of exposure	: Inhalation Skin contact Eye Contact Ingestion
Acute toxicity	
Product: Acute oral toxicity	: Remarks: Not applicable
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Acute inhalation toxicity	: Remarks: Not applicable	
Components:		
OLEFINSULFIDE:		
Acute oral toxicity	: LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 4 Assessment: The substance or toxicity Remarks: No mortality observed	mixture has no acute oral
Acute dermal toxicity	: LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 4 Assessment: The substance or toxicity Remarks: No mortality observed	mixture has no acute dermal
Components:		
Amines, C10-14-tert-alkyl: Acute oral toxicity	: LD50 Oral (Rat, male and fema	(a): 612 mg/kg
	Method: OECD Test Guideline 4 GLP: yes Assessment: The component/m oral toxicity, category 4.	401
Acute inhalation toxicity	: LC50 (Rat, male and female): E Test atmosphere: vapour Method: OECD Test Guideline 4 GLP: yes Assessment: The component/m inhalation toxicity, category 2.	403
Acute dermal toxicity	: LD50 (Rat, male and female): 2 Method: OECD Test Guideline 4 GLP: yes Assessment: The component/m dermal toxicity, category 3.	402
<u>Components:</u>		
	C16-18-(even numbered, saturated a	nd unsaturated)-alkylamines:
Acute oral toxicity	LD50 (Rat): 1.689 mg/kg Method: OECD Test Guideline 4 Remarks: Information given is b similar substances.	401
Acute dermal toxicity	: LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 4 Remarks: No mortality observed Information given is based on da substances.	d at this dose.
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#### Skin corrosion/irritation

#### Components:

METHACRYLATE COPOLYMER: Result: No skin irritation

OLEFINSULFIDE: Result: Mild skin irritation

## Amines, C10-14-tert-alkyl:

Species: Rabbit Result: Corrosive after 3 minutes to 1 hour of exposure GLP: yes

#### (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: Species: Rabbit

Result: Corrosive after 3 minutes to 1 hour of exposure Remarks: Information given is based on data obtained from similar substances.

#### Serious eye damage/eye irritation

#### Product:

Remarks: Unlikely to cause eye irritation or injury.

#### **Components:**

METHACRYLATE COPOLYMER:

Result: Irritating to eyes.

## OLEFINSULFIDE:

Result: Slight, transient irritation

#### Amines, C10-14-tert-alkyl:

Species: Rabbit Method: No information available. Result: Corrosive GLP: yes

#### (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines:

Species: Rabbit Result: Corrosive Remarks: Information given is based on data obtained from similar substances.

#### Respiratory or skin sensitisation

#### Product:

Assessment: Does not cause skin sensitisation.

## Components: OLEFINSULFIDE: Test Type: Maximisation Test

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#### Species: Guinea pig Assessment: The product is a skin sensitiser, sub-category 1B. Method: OECD Test Guideline 406

Amines, C10-14-tert-alkyl:

Test Type: Buehler Test Exposure routes: Dermal Species: Guinea pig Assessment: The product is a skin sensitiser, sub-category 1A. Method: Buehler Test GLP: yes

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: Assessment: Does not cause skin sensitisation. Remarks: Information given is based on data obtained from similar substances.

#### Germ cell mutagenicity

#### 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	
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines:		
Genotoxicity in vitro	: Test Type: Ames test Test species: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative Remarks: Information given is based on data obtained from similar substances.	

Carcinogenicity

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**Reproductive toxicity** 

STOT - single exposure

Components:

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: Exposure routes: Inhalation Target Organs: Respiratory Tract Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

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#### STOT - repeated exposure

#### **Components:**

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: Exposure routes: Ingestion

Target Organs: Liver, Immune system, Gastro-intestinal system Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

#### Aspiration toxicity

#### Components:

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines: The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### **Further information**

Product:

Remarks: No data available

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

<u>Components:</u> Di-tert-butyl polysulfide Ecotoxicology Assessment	
Short-term (acute) aquatic hazard	: Harmful to aquatic life.
Long-term (chronic) aquatic hazard	: Harmful to aquatic life with long lasting effects.
Amines, C10-14-tert-alkyl Ecotoxicology Assessment	
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.
	Acute aquatic toxicity Category 1; Very toxic to aquatic life.
Long-term (chronic) aquatic hazard	: Very toxic to aquatic life with long lasting effects.
	Chronic aquatic toxicity Category 1; Very toxic to aquatic life with long lasting effects.
(Z)-octadec-9-enylamine, C16- Toxicity to fish	18-(even numbered, saturated and unsaturated)-alkylamines : LC50 (Fish): estimated 0,06 mg/l

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	Exposure time: 96 h Remarks: Information given is ba similar substances.	sed on data obtained from
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water fle Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 20 Remarks: Information given is ba similar substances.	)2
Toxicity to algae	: EC50 (Desmodesmus subspicatu End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 20 Remarks: Information given is ba similar substances.	01
M-Factor (Short-term (acute) aquatic hazard)	: 10	
M-Factor (Long-term (chronic) aquatic hazard)	: 10	

## 12.2 Persistence and degradability

#### Components:

Di-tert-butyl polysulfide			
Biodegradability	: Result: Not readily biodegradable. Biodegradation: 13 % Exposure time: 28 d Method: OECD Test Guideline 301B		
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines			
Biodegradability	: Result: Readily biodegradable. Biodegradation: 66 % Exposure time: 28 d Method: Regulation (EC) No. 440/2008, Annex, C.4-C Remarks: Information given is based on data obtained from similar substances.		

## 12.3 Bioaccumulative potential

## Components:

Amines, C10-14-tert-alkyl	
Partition coefficient: n- octanol/water	: log Pow: 2,9 (20 °C)
	-18-(even numbered, saturated and unsaturated)-alkylamines
Partition coefficient: n- octanol/water	: log Pow: estimated 6 - 8

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<b>12.4 Mobility in soil</b> No data available		
12.5 Results of PBT and vPvB as Not relevant	sessment	
12.6 Other adverse effects		
Product: Additional ecological information	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.	
SECTION 13: Disposal considerations		
<b>13.1 Waste treatment methods</b> Product	: The product should not be allowed to enter drains, water courses or the soil.	

Contaminated packaging	:	Empty remaining contents.
		Dispose of as unused product.
		Empty containers should be taken to an approved waste
		handling site for recycling or disposal.

## **SECTION 14: Transport information**

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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**

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

The components of this product are reported in the following inventories: DSL : All components of this product are on the Canadian DSL AICS 2 On the inventory, or in compliance with the inventory ENCS : Not 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 TCSI On the inventory, or in compliance with the inventory TSCA On TSCA Inventory :

#### Inventories

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

#### 15.2 Chemical safety assessment

No data available

#### **SECTION 16: Other information**

Further information

Internal information : R0517044

### **Full text of H-Statements**

Other information

: The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the

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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 ('+31 (0)78 654 3500).

Sources of key data used to compile the Safety Data Sheet

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.

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

ABM : Water Hazard Class for the Netherlands

ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.

ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine

CLP : Classification, Labelling and Packaging

CSA : Chemical Safety Assessment

CSR : Chemical Safety Report

DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

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ELINCS : European List of Notified Chemical Substances PEC : Predicted Effect Concentration PEL : Permissible Exposure Limits PNEC : Predicted No Effect Concentration R-phrase : Risk phrase REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals RID : Regulation Concerning the International Transport of Dangerous Goods by Rail S-phrase: Safety phrase WGK : German Water Hazard Class