Valvoline™ LIGHT & HD GEAR OIL 80W90 Gear Oil

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

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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 : If breathed in, move person into fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

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 : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

### 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 media : 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

: If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing

methods

: Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

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

### 6.1 Personal precautions, protective 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 : 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.

#### 6.3 Methods and material for containment and cleaning up

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.

: General industrial hygiene practice. Hygiene measures

### 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.

Other data : No decomposition if stored and applied as directed.

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 : 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:

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 and chemical properties

Appearance : liquid

Colour : amber

Odour : oily

Odour Threshold : No data available

pH : 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

9.2 Other information

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.

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

products

: No hazardous decomposition products are known.

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Information on likely routes of : Inhalation

exposure 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 401

Assessment: The substance or mixture has no acute oral

toxicity

Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: No mortality observed at this dose.

**Components:** 

Amines, C10-14-tert-alkyl:

Acute oral toxicity : LD50 Oral (Rat, male and female): 612 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Assessment: The component/mixture is classified as acute

oral toxicity, category 4.

Acute inhalation toxicity : LC50 (Rat, male and female): Exposure time: 4 h

Test atmosphere: vapour

Method: OECD Test Guideline 403

GLP: yes

Assessment: The component/mixture is classified as acute

inhalation toxicity, category 2.

Acute dermal toxicity : LD50 (Rat, male and female): 251 mg/kg

Method: OECD Test Guideline 402

GLP: yes

Assessment: The component/mixture is classified as acute

dermal toxicity, category 3.

Components:

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

Acute oral toxicity : LD50 (Rat): 1.689 mg/kg

Method: OECD Test Guideline 401

Remarks: Information given is based on data obtained from

similar substances.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

Remarks: No mortality observed at this dose.

Information given is based on data obtained from similar

substances.

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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

### 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

### **Components:**

Di-tert-butyl polysulfide **Ecotoxicology Assessment** 

Short-term (acute) aquatic Harmful to aquatic life.

hazard

Long-term (chronic) aquatic : Harmful to aquatic life with long lasting effects.

hazard

Amines, C10-14-tert-alkyl **Ecotoxicology Assessment** 

Short-term (acute) aquatic : Very toxic to aquatic life.

hazard

Acute aquatic toxicity Category 1; Very toxic to aquatic life.

Long-term (chronic) aquatic : Very toxic to aquatic life with long lasting effects.

hazard

Chronic aquatic toxicity Category 1; Very toxic to aquatic life

with long lasting effects.

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

Toxicity to fish LC50 (Fish): estimated 0,06 mg/l

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Exposure time: 96 h

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0,98 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 0,083 mg/l

End point: Growth inhibition Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Remarks: Information given is based on data obtained from

similar substances.

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- : log Pow: 2,9 (20 °C)

octanol/water

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

Partition coefficient: n- : log Pow: estimated 6 - 8

octanol/water

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П

### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

Not relevant

#### 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**

#### 13.1 Waste treatment methods

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 : 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