



# **SAFETY DATA SHEET**

Valvoline™ AXLE OIL 75W90 LS SYNTHETIC  
BLEND GEAR OIL

Version: 11.0

Revision Date: 04.08.2022

Print 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**

Product name : Valvoline™ AXLE OIL 75W90 LS  
SYNTHETIC BLEND GEAR OIL

Product code : 866904

### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Engine, gear & lubricating oil.

### **1.3 Details of the supplier of the safety data sheet**

Company : Ellis Enterprises B.V., an affiliate of Valvoline  
Wieldrechtseweg 39  
3316 BG Dordrecht  
Netherlands

Telephone : +31 (0)78 654 3500 (in the Netherlands), or contact your local  
CSR contact person

E-mail address : SDS@valvoline.com

### **1.4 Emergency telephone number**

00-800-825-8654 / 001-859-202-3865, or contact your local emergency telephone number  
at 112

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## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Long-term (chronic) aquatic hazard,  
Category 3

H412: Harmful to aquatic life with long lasting  
effects.



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## 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.

### Prevention:

P273 Avoid release to the environment.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

## Additional Labelling

EUH208 Contains OLEFINSULFIDE, Amines, C10-14-tert-alkyl.

May produce an allergic reaction.

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED	72623-87-1 276-738-4 649-483-00-5 01-2119474889-13- xxxx	Asp. Tox. 1; H304	>= 15 - < 25
LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED	72623-86-0 276-737-9	Asp. Tox. 1; H304	>= 5 - < 10



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OLEFINSULFIDE	649-482-00-X 68937-96-2 273-103-3 01-2119540515-43-xxxx	Skin Sens. 1B; H317 Aquatic Chronic 3; H412  specific concentration limit 6.5 1B; H317 ≥ 46 %	≥ 2.5 - < 5
Poly Long-chain alkyl methacrylate	Not Assigned	Eye Irrit. 2; H319	≥ 1 - < 2.5
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	1213789-63-9 627-034-4 01-2119473797-19-xxxx	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Liver, Immune system, Gastro-intestinal system) Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	≥ 0.1 - < 0.25
Amines, C10-14-tert-alkyl	Not Assigned 01-2119456798-18	Acute Tox. 4; H302 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	≥ 0.1 - < 0.25



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For explanation of abbreviations see section 16.

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

### **4.1 Description of first aid measures**

- |                        |   |   |
|------------------------|---|---|
| General advice         | : | Do not leave the victim unattended.   |
| If inhaled             | : | If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.   |
| In case of eye contact | : | Remove contact lenses.<br>Protect unharmed eye.<br>If eye irritation persists, consult a specialist.  |
| If swallowed           | : | Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>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.<br><br>Treat symptomatically. |
|-----------|---|--|

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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

### **5.2 Special hazards arising from the substance or mixture**

- |                                      |   |   |
|--------------------------------------|---|---|
| Specific hazards during firefighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products        | : | carbon dioxide and carbon monoxide<br>Nitrogen oxides (NOx)               |



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### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

### 6.2 Environmental precautions

- Environmental precautions : Prevent product from entering drains.  
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 : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.
- 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. Electrical installations /



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working materials must comply with the technological safety standards.

Advice on common storage : No materials to be especially mentioned.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Safety glasses

Skin and body protection : Protective suit

Respiratory protection : No personal respiratory protective equipment normally required.

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## 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 : < -39 °C



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Boiling point/boiling range	: No data available
Flash point	: 195 °C
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	: ca. 0.865 g/cm <sup>3</sup> (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
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: ca. 106.2 mm <sup>2</sup> /s (40 °C)
Oxidizing properties	: No data available

### 9.2 Other information

Self-ignition	: No data available
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## SECTION 10: Stability and reactivity



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## 10.1 Reactivity

No decomposition if stored and applied as directed.

## 10.2 Chemical stability

No decomposition if stored and applied as directed.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.  
No hazards to be specially mentioned.

## 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

No hazardous decomposition products are known.

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Acute toxicity

Not classified based on available information.

### Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

### Components:

### LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Acute inhalation toxicity : LC50 (Rat): > 5.58 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute





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Acute dermal toxicity : **inhalation toxicity**  
Remarks: **No mortality observed at this dose.**  
: **LD50 (Rabbit): > 5,000 mg/kg**  
Remarks: **No mortality observed at this dose.**

### LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED:

Acute oral toxicity : **LD50 (Rat): > 5,000 mg/kg**  
Acute inhalation toxicity : **LC50 (Rat): > 5.58 mg/l**  
Exposure time: **4 h**  
Test atmosphere: **dust/mist**  
Assessment: **The substance or mixture has no acute inhalation toxicity**  
Remarks: **No mortality observed at this dose.**  
Acute dermal toxicity : **LD50 (Rabbit): > 5,000 mg/kg**  
Remarks: **No mortality observed at this dose.**

### 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.**

### (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: **The toxicological data has been taken from products of similar composition.**  
Acute dermal toxicity : **LD50 (Rat): > 2,000 mg/kg**  
Method: **OECD Test Guideline 402**  
Remarks: **No mortality observed at this dose.**  
**The toxicological data has been taken from products of similar composition.**

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



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Acute oral toxicity	: LD50 Oral (Rat, male and female): 612 mg/kg Method: OECD Test Guideline 401 GLP: yes Assessment: The component/mixture is moderately toxic after single ingestion.
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 highly toxic after short term inhalation.
Acute dermal toxicity	: LD50 (Rat, male and female): 251 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The component/mixture is toxic after single contact with skin.

### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Species	: Rabbit
Result	: No skin irritation

#### LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED:

Species	: Rabbit
Result	: No skin irritation

### OLEFINSULFIDE:

Result	: Mild skin irritation
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### (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	: The toxicological data has been taken from products of similar composition.

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

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



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GLP : yes

## Serious eye damage/eye irritation

Not classified based on available information.

## Components:

### LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Species : Rabbit  
Result : No eye irritation

### LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED:

Species : Rabbit  
Result : No eye irritation

## OLEFINSULFIDE:

Result : Slight, transient irritation

## Poly Long-chain alkyl methacrylate:

Assessment : Irritating to eyes.  
Result : Irritating to eyes.

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

Species : Rabbit  
Result : Corrosive  
Remarks : The toxicological data has been taken from products of similar composition.

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

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

## Respiratory or skin sensitisation

### Skin sensitisation

Not classified based on available information.

### Respiratory sensitisation

Not classified based on available information.



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## **Product:**

Result : Does not cause skin sensitisation.

## **Components:**

### **LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:**

Test Type	:	Buehler Test
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.

### **LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED:**

Test Type	:	Buehler Test
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.

### **OLEFINSULFIDE:**

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

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

Assessment	:	Does not cause skin sensitisation.
Remarks	:	The toxicological data has been taken from products of similar composition.

### **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

### **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.



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Genotoxicity in vivo : Test Type: **Micronucleus 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 system: **Salmonella typhimurium**  
Metabolic activation: **with and without metabolic activation**  
Result: **negative**  
Remarks: **The toxicological data has been taken from products of similar composition.**

## **Carcinogenicity**

Not classified based on available information.

## **Components:**

## **LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:**

Carcinogenicity - Assessment : **Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)**

## **Reproductive toxicity**

Not classified based on available information.

## **STOT - single exposure**

Not classified based on available information.

## **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.**

## **STOT - repeated exposure**

Not classified based on available information.

## **Components:**

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

Exposure routes : **Ingestion**



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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

Not classified based on available information.

### Components:

#### LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

May be fatal if swallowed and enters airways.

#### LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED:

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.

May be fatal if swallowed and enters airways.

#### (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

#### Product:

#### Ecotoxicology Assessment

Acute aquatic toxicity :

Acute aquatic toxicity Category 2; Toxic to aquatic life.

Chronic aquatic toxicity :

Harmful to aquatic life with long lasting effects.

Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.



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## Components:

### LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Toxicity to fish	: LL50 ( <i>Pimephales promelas</i> (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	: EL50 ( <i>Daphnia magna</i> (Water flea)): > 10,000 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: NOEL ( <i>Pseudokirchneriella subcapitata</i> (green algae)): >= 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	: NOELR: >= 1,000 mg/l Exposure time: 14 d Species: <i>Oncorhynchus mykiss</i> (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEL: 10 mg/l Exposure time: 21 d Species: <i>Daphnia</i> (water flea) Test substance: WAF Method: OECD Test Guideline 211

### Ecotoxicology Assessment

Acute aquatic toxicity	: Not classified based on available information.
Chronic aquatic toxicity	: Not classified based on available information.

### LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED:

Toxicity to fish	: LL50 ( <i>Pimephales promelas</i> (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 203
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	Remarks: <b>No toxicity at the limit of solubility</b>
Toxicity to daphnia and other aquatic invertebrates	: <b>EL50 (Daphnia magna (Water flea)): &gt; 10,000 mg/l</b> Exposure time: <b>48 h</b> Test Type: <b>static test</b> Test substance: <b>WAF</b> Method: <b>OECD Test Guideline 202</b>
Toxicity to algae/aquatic plants	: <b>NOEL (Pseudokirchneriella subcapitata (green algae)): &gt;= 100 mg/l</b> End point: <b>Growth inhibition</b> Exposure time: <b>72 h</b> Test Type: <b>static test</b> Test substance: <b>WAF</b> Method: <b>OECD Test Guideline 201</b>
Toxicity to fish (Chronic toxicity)	: <b>NOELR: Calculated &gt;= 1,000 mg/l</b> Exposure time: <b>14 d</b> Species: <b>Oncorhynchus mykiss (rainbow trout)</b>
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: <b>NOEL: 10 mg/l</b> Exposure time: <b>21 d</b> Species: <b>Daphnia (water flea)</b> Test substance: <b>WAF</b> Method: <b>OECD Test Guideline 211</b>

### Ecotoxicology Assessment

Acute aquatic toxicity	: <b>Not classified based on available information.</b>
Chronic aquatic toxicity	: <b>Not classified based on available information.</b>

### OLEFINSULFIDE:

#### Ecotoxicology Assessment

Acute aquatic toxicity	: <b>Harmful to aquatic life.</b>  <b>Acute aquatic toxicity Category 3; Harmful to aquatic life.</b>
Chronic aquatic toxicity	: <b>Harmful to aquatic life with long lasting effects.</b>  <b>Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.</b>





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## Poly Long-chain alkyl methacrylate:

### Ecotoxicology Assessment

Acute aquatic toxicity	:	Not classified based on available information.
Chronic aquatic toxicity	:	Not classified based on available information.

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

Toxicity to fish	:	LC50 (Fish): estimated 0.06 mg/l Exposure time: 96 h Remarks: The toxicological data has been taken from products of similar composition.
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: The toxicological data has been taken from products of similar composition.
Toxicity to algae/aquatic plants	:	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: The toxicological data has been taken from products of similar composition.
M-Factor (Acute aquatic toxicity)	:	10
M-Factor (Chronic aquatic toxicity)	:	10

### Ecotoxicology Assessment

Acute aquatic toxicity	:	Acute aquatic toxicity Category 1; Very toxic to aquatic life.
Chronic aquatic toxicity	:	Chronic aquatic toxicity Category 1; Very toxic to aquatic life with long lasting effects.

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

### Ecotoxicology Assessment

Acute aquatic toxicity	:	Very toxic to aquatic life. Acute aquatic toxicity Category 1; Very toxic to aquatic life.
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Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.  
Chronic aquatic toxicity Category 1; Very toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

### Components:

#### LUBRICATING OILS, PETROLEUM, C20-50, HYDROTREATED:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2 - 4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

#### LUBRICATING OILS, PETROLEUM, C15-30, HYDROTREATED:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2 - 4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

#### OLEFINSULFIDE:

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: The toxicological data has been taken from products of similar composition.

## 12.3 Bioaccumulative potential

### Components:

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

Partition coefficient: n-octanol/water : log Pow: estimated 6 - 8



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

Partition coefficient: n-octanol/water : log Pow: 2.9 (20 °C)

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Other adverse effects

### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life.  
Harmful to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.

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## 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



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### 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.

## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) : Not applicable

Seveso III Directive (2012/18/EU) implemented by Control of Major Accident Hazards Regulations 2015 (COMAH) : Directive 96/82/EC does not apply

Not applicable



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Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 64.56 %

**The components of this product are reported in the following inventories:**

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIIC : Not in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : Not in compliance with the inventory

ISHL : 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

NZIoC : Not in compliance with the inventory

TECI : Not in compliance with the inventory

## 15.2 Chemical safety assessment

No data available

**Inventories**

AIIIC (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)

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## SECTION 16: Other information

**Full text of H-Statements**

H302 : Harmful if swallowed.

H304 : May be fatal if swallowed and enters airways.

H311 : Toxic in contact with skin.

H314 : Causes severe skin burns and eye damage.

H317 : May cause an allergic skin reaction.

H318 : Causes serious eye damage.



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H319	: Causes serious eye irritation.
H330	: Fatal if inhaled.
H335	: May cause respiratory irritation.
H373	: May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Skin Corr.	: Skin corrosion
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition



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Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Internal information : R0517032

**Classification of the mixture:**

Aquatic Chronic 3

H412

**Classification procedure:**

Based on product data or assessment

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.

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