



**SAFETY DATA SHEET**  
Valvoline™ HYBRID ATF SYNTHETIC BLEND  
ATF

Version: 1.0

Revision Date: 11.09.2020

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**

Trade name : Valvoline™ HYBRID ATF  
SYNTHETIC BLEND ATF

Product code : 892451

**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**

Ellis Enterprises B.V., an affiliate of Valvoline  
Wieldrechtseweg 39  
3316 BG Dordrecht  
Netherlands  
+31 (0)78 654 3500 (in the Netherlands), or  
contact your local CSR contact person

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

**Product Information**

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

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Long-term (chronic) aquatic hazard, Category 3      H412: Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

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

Precautionary statements : **Prevention:**



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P273                      Avoid release to the environment.  
**Disposal:**  
P501                      Dispose of contents/ container to an approved waste disposal plant.

### 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.

**Additional advice**

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Hazardous components**

| Chemical name  | CAS-No.<br>EC-No.<br>Registration number          | Classification<br>(REGULATION (EC)<br>No 1272/2008)        | Concentration (%)  |
|--|---|--|--------------------|
| Lubricating Oils<br>(Petroleum), C20-50,<br>Hydrotreated Neutral<br>Oil-Based          | 72623-87-1<br>276-738-4<br>01-2119474889-13-xxxx  | Asp. Tox.1; H304   | >= 25,00 - < 40,00 |
| DECENE-1<br>HOMOPOLYMER<br>HYDROGENATED  | 68037-01-4<br>01-2119486452-34-xxxx               | Asp. Tox.1; H304   | >= 5,00 - < 10,00  |
| METHACRYLATE<br>COPOLYMER  |   | Eye Irrit.2; H319  | >= 1,00 - < 2,50   |
| Lubricating oils<br>(petroleum), C15-30,<br>hydrotreated neutral oil-<br>based         | 72623-86-0<br>276-737-9                           | Asp. Tox.1; H304   | >= 1,00 - < 2,50   |
| Distillates (petroleum),<br>hydrotreated light<br>paraffinic                           | 64742-55-8<br>265-158-7<br>01-2119487077-29-xxxx  | Asp. Tox.1; H304   | >= 1,00 - < 2,50   |
| Thiophene, tetrahydro-,<br>1,1-dioxide, 3-(C9-11-<br>isoalkyloxy) derivs.,<br>C10-rich | 398141-87-2<br>800-172-4<br>01-2119969520-35-xxxx | Aquatic Chronic2;<br>H411                                  | >= 1,00 - < 2,50   |
| dimantine  | 124-28-7  | Acute Tox.4; H302<br>Skin Corr.1B; H314<br>Eye Dam.1; H318 | >= 0,10 - < 0,25   |



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|   |  | Aquatic Acute1;<br>H400<br>Aquatic Chronic1;<br>H410   |                   |
| 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | 1218787-32-6<br>620-540-6<br>01-2119510877-33-xxxx | Acute Tox.4; H302<br>Skin Corr.1C; H314<br>Eye Dam.1; H318<br>Aquatic Acute1;<br>H400<br>Aquatic Chronic2;<br>H411                   | >= 0,10 - < 0,25  |
| 3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine                      | 939-485-7<br>01-2119974116-35-xxxx                 | Acute Tox.4; H302<br>Skin Corr.1B; H314<br>Eye Dam.1; H318<br>Aquatic Acute1;<br>H400<br>Aquatic Chronic1;<br>H410                   | >= 0,025 - < 0,10 |
| 2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol                      | 95-38-5<br>202-414-9<br>01-2119777867-13-xxxx      | Acute Tox.4; H302<br>Skin Corr.1C; H314<br>Eye Dam.1; H318<br>STOT RE2; H373<br>Aquatic Acute1;<br>H400<br>Aquatic Chronic1;<br>H410 | >= 0,025 - < 0,10 |

For explanation of abbreviations see section 16.

**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 symptoms persist, call a physician.  
If unconscious, place in recovery position and seek medical advice.  
If breathed in, move person into fresh air.
- 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 : Protect unharmed eye.  
Remove contact lenses.



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If swallowed : If symptoms persist, call a physician.  
Never give anything by mouth to an unconscious person.  
Do not give milk or alcoholic beverages.

**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.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

Suitable extinguishing media : Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Foam  
Water spray  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**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.  
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.

Hazardous combustion products : carbon dioxide and carbon monoxide

**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.

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Further information : 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

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 : If the product contaminates rivers and lakes or drains inform respective authorities.  
Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.

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

Methods for cleaning up : Keep in suitable, closed containers for disposal.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### 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 : 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.



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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

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

**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol : End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 0,46 mg/m<sup>3</sup>RD TOX - Repeated dose toxicity  
End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Acute systemic effects  
Value: 14 mg/m<sup>3</sup>RD TOX - Repeated dose toxicity  
End Use: Workers  
Exposure routes: Dermal  
Potential health effects: Long-term systemic effects  
Value: 0,06 mg/kgRD TOX - Repeated dose toxicity  
End Use: Workers  
Exposure routes: Dermal  
Potential health effects: Acute systemic effects  
Value: 2 mg/kgRD TOX - Repeated dose toxicity

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol : Sewage treatment plant  
Value: 0,27 mg/l  
Fresh water sediment  
Value: 0,376 mg/kg  
Marine sediment  
Value: 0,0376 mg/kg  
Soil  
Value: 0,075 mg/kg

**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



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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 : Safety shoes  
Wear as appropriate:
- Respiratory protection : No personal respiratory protective equipment normally required.
- 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
- Melting point/freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : ca. 178 °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 : No data available



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flammability limit

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : ca. 0,843 g/cm<sup>3</sup> (15,6 °C)

Solubility(ies)

Water solubility : immiscible

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. 37 mm<sup>2</sup>/s (40 °C)  
Method: ASTM D 445

Oxidizing properties : No data available

## 9.2 Other information

Self-ignition : No data available

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## 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 : excessive heat





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**10.5 Incompatible materials**

Materials to avoid : Strong oxidizing agents

**10.6 Hazardous decomposition products**

Hazardous decomposition products : No hazardous decomposition products are known.

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**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

Information on likely routes of exposure : Ingestion  
Eye Contact  
Skin contact  
Inhalation

**Acute toxicity**

Not classified based on available information.

**Components:**

**Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:**

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: Not classified as acutely toxic by inhalation under GHS.  
Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Remarks: No mortality observed at this dose.

**Components:**

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5,2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.



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Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

**Components:**

**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: Not classified as acutely toxic by inhalation under GHS.  
Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Remarks: No mortality observed at this dose.

**Components:**

**Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich:**

Acute oral toxicity : LD50 (Rat): > 10.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit, male): > 4.000 - 8.000 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

**Components:**

**DIMETHYLSTEARYLAMINE:**

Acute oral toxicity : LD50 (Rat): 624 mg/kg

Acute dermal toxicity : Remarks: see user defined free text

**Components:**

**2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol:**

Acute oral toxicity : LD50 (Rat, female): 1.200 mg/kg  
Method: OECD Test Guideline 425

**Components:**

**3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine:**

Acute oral toxicity : LD50 (Rat): 200 - 2.000 mg/kg  
Method: OECD Test Guideline 423  
Assessment: The component/mixture is classified as acute oral toxicity, category 4.



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**Components:**

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Acute oral toxicity : LD50 (Rat): ca. 1.265 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

**Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:**

Species: Rabbit

Result: No skin irritation

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

Species: Rabbit

Result: No skin irritation

**METHACRYLATE COPOLYMER:**

Result: No skin irritation

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

Species: Rabbit

Result: No skin irritation

**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

Result: Slight, transient irritation

**DIMETHYLSTEARYLAMINE:**

Species: Rabbit

Result: Corrosive to skin

**2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol:**

Result: Corrosive after 1 to 4 hours of exposure

**3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive after 3 minutes to 1 hour of exposure

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive after 1 to 4 hours of exposure

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**



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Remarks: Unlikely to cause eye irritation or injury.

**Components:**

**Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:**

Species: Rabbit

Result: No eye irritation

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

Species: Rabbit

Result: Slight, transient irritation

**METHACRYLATE COPOLYMER:**

Result: Irritating to eyes.

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

Species: Rabbit

Result: No eye irritation

**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

Result: Slight, transient irritation

**DIMETHYLSTEARYLAMINE:**

Species: Rabbit

Result: Corrosive

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Result: Corrosive

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:**

**Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:**

Test Type: Buehler Test

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

Test Type: Maximisation Test

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

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

Test Type: Buehler Test



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Species: Guinea pig  
Assessment: Does not cause skin sensitisation.

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Species: Guinea pig  
Assessment: Does not cause skin sensitisation.  
Method: OECD Test Guideline 406

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

Genotoxicity in vitro : Test Type: Ames test  
Test species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

**Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test species: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

: Test species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative

**DIMETHYLSTEARYLAMINE:**

Genotoxicity in vitro : Test Type: Ames test  
Test species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

**Carcinogenicity**

Not classified based on available information.

**Components:**

**Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:**

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

**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

Carcinogenicity - : Classified based on DMSO extract content < 3% (Regulation



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Assessment (EC) 1272/2008, Annex VI, Part 3, Note L)

**Reproductive toxicity**

Not classified based on available information.

**Components:**

**Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich:**

Effects on foetal development : Species: Rat  
Strain: Sprague-Dawley  
Application Route: Oral  
Developmental Toxicity: No observed adverse effect level (Mating/Fertility): >= 600  
Method: OECD Test Guideline 421  
Result: No effects on fertility and early embryonic development were detected.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Components:**

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Exposure routes: Ingestion  
Target Organs: Gastrointestinal tract, thymus gland  
Assessment: May cause damage to organs through prolonged or repeated exposure.

**Aspiration toxicity**

Not classified based on available information.

**Components:**

**Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:**

May be fatal if swallowed and enters airways.

**DECENE-1 HOMOPOLYMER HYDROGENATED:**

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.

**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.

**HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**



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May be fatal if swallowed and enters airways.

**Further information**

**Product:**

Remarks: No data available

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components:**

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based

Toxicity to fish : LL50 (Pimephales promelas (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 (Daphnia magna (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 : NOEL (Pseudokirchneriella subcapitata (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: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia (water flea)  
Test substance: WAF  
Method: OECD Test Guideline 211



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**DECENE-1 HOMOPOLYMER HYDROGENATED**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Test substance: WAF

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1.000 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: WAF  
Method: OECD Test Guideline 202

Toxicity to algae : EL50 (Scenedesmus capricornutum (fresh water algae)): > 1.000 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test  
Test substance: WAF  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 125 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Test substance: WAF  
Method: OECD Test Guideline 211

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based  
Toxicity to fish : LL50 (Pimephales promelas (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 (Daphnia magna (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 : NOEL (Pseudokirchneriella subcapitata (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





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| Toxicity to fish (Chronic toxicity)  | : NOELR: Calculated $\geq$ 1.000 mg/l<br>Exposure time: 14 d<br>Species: Oncorhynchus mykiss (rainbow trout)  |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)                           | : NOEL: 10 mg/l<br>Exposure time: 21 d<br>Species: Daphnia (water flea)<br>Test substance: WAF<br>Method: OECD Test Guideline 211   |
| Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich<br>Toxicity to fish | : (Pimephales promelas (fathead minnow)): 4,2 mg/l<br>Exposure time: 96 h   |
| Toxicity to daphnia and other aquatic invertebrates  | : EC50 (Daphnia magna (Water flea)): 4,6 mg/l<br>Exposure time: 48 h  |
| Toxicity to algae  | : LL50 (Desmodesmus subspicatus (green algae)): 3,5 mg/l<br>End point: Biomass<br>Exposure time: 72 h<br>Test substance: WAF<br><br>LL50 (Desmodesmus subspicatus (green algae)): 63 mg/l<br>End point: Growth inhibition<br>Exposure time: 72 h<br>Test substance: WAF |
| dimantine<br>Toxicity to fish  | : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,18 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 203   |
| Toxicity to daphnia and other aquatic invertebrates  | : EC50 (Daphnia magna (Water flea)): 0,51 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202  |
| Toxicity to algae  | : NOEC (Desmodesmus subspicatus (green algae)): 0,00517 mg/l<br>End point: Growth inhibition<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201<br><br>ErC50 (Desmodesmus subspicatus (green algae)): 0,00141 mg/l                     |



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|   |   |
|---|---|
|   | End point: Growth inhibition<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201  |
| M-Factor (Short-term (acute) aquatic hazard)  | : 1   |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)                  | : NOEC: 0,036 mg/l<br>Exposure time: 21 d<br>End point: Reproduction Test<br>Species: Daphnia (water flea)<br>Test Type: semi-static test<br>Method: OECD Test Guideline 211<br>Remarks: Information given is based on data obtained from similar substances.                           |
| M-Factor (Long-term (chronic) aquatic hazard)   | : 1   |
| 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol<br>Toxicity to fish | : LC50 (Danio rerio (zebra fish)): 0,1 mg/l<br>Exposure time: 96 h<br>Test Type: semi-static test<br>Method: OECD Test Guideline 203  |
| Toxicity to daphnia and other aquatic invertebrates                                     | : EC50 (Daphnia magna (Water flea)): 0,043 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202   |
| Toxicity to algae   | : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,0867 mg/l<br>End point: Growth inhibition<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201<br><br>NOEC (Pseudokirchneriella subcapitata (green algae)): 0,0156 mg/l<br>Exposure time: 72 h |
| M-Factor (Short-term (acute) aquatic hazard)  | : 10  |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)                  | : EC50: 0,0463 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)   |



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Test Type: semi-static test  
Method: OECD Test Guideline 211

M-Factor (Long-term  
(chronic) aquatic hazard) : 1

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine  
Toxicity to fish : LC50 (Danio rerio (zebra fish)): 2,14 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,0827 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

M-Factor (Short-term (acute)  
aquatic hazard) : 10

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

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol  
Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,3 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other  
aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,163 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 0,03 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

M-Factor (Short-term (acute)  
aquatic hazard) : 10

M-Factor (Long-term  
(chronic) aquatic hazard) : 1



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## 12.2 Persistence and degradability

### Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based  
Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2 - 4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

DECENE-1 HOMOPOLYMER HYDROGENATED  
Biodegradability : Result: Inherently biodegradable

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based  
Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2 - 4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich  
Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 9,6 %  
Exposure time: 28 d

dimantine  
Biodegradability : Result: Readily biodegradable.  
Biodegradation: 68 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol  
Biodegradability : Inoculum: activated sludge  
Concentration: 2,7 mg/l  
Result: Readily biodegradable.  
Biodegradation: 63 %  
Related to: Chemical oxygen demand  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine  
Biodegradability : Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 68 %  
Exposure time: 28 d

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol  
Biodegradability : Result: Not readily biodegradable.



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Biodegradation: 1 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

## 12.3 Bioaccumulative potential

### Components:

DECENE-1 HOMOPOLYMER HYDROGENATED

Partition coefficient: n-  
octanol/water : log Pow: > 6,5

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich

Partition coefficient: n-  
octanol/water : log Pow: 1,19

dimantine

Partition coefficient: n-  
octanol/water : log Pow: Calculated 5,1

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine

Partition coefficient: n-  
octanol/water : log Pow: -0,34 (25 °C)

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol

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

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

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## SECTION 13: Disposal considerations



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**13.1 Waste treatment methods**

- Product : The product should not be allowed to enter drains, water courses or the soil.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Dispose of as unused product.  
Empty remaining contents.

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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

**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**

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



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Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

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

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
DISTILLATES (PETROLEUM),  
HYDROTREATED HEAVY  
PARAFFINIC (Number on list 28)  
  
(Number on list 28)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

**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



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TCSI : Not 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)

**15.2 Chemical safety assessment**

No data available

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**SECTION 16: Other information**

**Further information**

Internal information : 000000277163

**Full text of H-Statements**

H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H319 Causes serious eye 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.  
**H411** Toxic to aquatic life with long lasting effects.

Other information : 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 (+31 (0)78 654 3500).





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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.

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



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DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

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