



## SAFETY DATA SHEET

Valvoline™ MAXLIFE ATF 24/1L

Version: 1.0

Revision Date: 28.09.2023

Print Date: 12/21/2024

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Valvoline™ MAXLIFE ATF 24/1L

Product code : 891906

#### Manufacturer or supplier's details

Company : Valvoline Global Operations

Address : 100 Valvoline Way  
Lexington, KY 40509  
United States of America (USA)

Telephone : 1-800-TEAMVAL (1-800-832-6825)

Emergency telephone number : +1-800-VALVOLINE (+1-800-825-8654)

E-mail address : SDS@valvolineglobal.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Engine, gear & lubricating oil.

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Skin sensitisation : Category 1

Short-term (acute) aquatic hazard : Category 3

Long-term (chronic) aquatic hazard : Category 3

#### GHS label elements



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Hazard pictograms

:



Signal word

:

Warning

Hazard statements

:

H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

:

**Prevention:**

P261 Avoid breathing mist or vapours.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P333 + P317 If skin irritation or rash occurs: Get medical help.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

**Disposal:**

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

**Other hazards which do not result in classification**

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Mineral Oil	Not Assigned	$\geq 30$ - $< 50$
POLYALPHAOLEFIN	68649-12-7	$\geq 20$ - $< 30$
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	$\geq 10$ - $< 20$
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	$\geq 1$ - $< 10$
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich	398141-87-2	$\geq 1$ - $< 2,5$
Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.	866259-61-2	$\geq 0,25$ - $< 1$
1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS.	Not Assigned	$\geq 0,25$ - $< 1$



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DODECYL HYDROXYPROPYL SULFIDE	67124-09-8	$\geq 0,1 - < 0,25$
BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS	Not Assigned	$\geq 0,1 - < 1$
ETHANOL, 2,2'-IMINOBIS-, N-TALLOW ALKYL DERIVS.	61791-44-4	$\geq 0,025 - < 0,1$

### 4. FIRST AID MEASURES

General advice	: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: If on skin, rinse well with water.
In case of eye contact	: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: No symptoms known or expected.
Notes to physician	: No hazards which require special first aid measures. Treat symptomatically.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	: High volume water jet
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
Specific extinguishing methods	: 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.
Special protective equipment	: Wear self-contained breathing apparatus for firefighting if



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for firefighters

necessary.

### 6. ACCIDENTAL RELEASE MEASURES

- |   |   |   |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.  |
| Environmental precautions   | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up               | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal.                             |

### 7. HANDLING AND STORAGE

- |   |   |  |
|---|---|--|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection.  |
| Advice on safe handling                         | : | Do not breathe vapours/dust.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Dispose of rinse water in accordance with local and national regulations.<br>Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. |
| Conditions for safe storage                     | : | Keep container tightly closed in a dry and well-ventilated place.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage.<br>Electrical installations / working materials must comply with the technological safety standards.  |
| Further information on storage stability        | : | No decomposition if stored and applied as directed.  |

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters



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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

#### Hand protection

Material : neoprene, nitrile rubber  
Break through time :  $\geq 240$  min  
Glove thickness :  $\geq 0,35$  mm  
Directive : Equipment should conform to EN 374

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.  
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid



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Colour	:	amber
Odour	:	mild
Odour Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	No data available No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Self-ignition	:	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. 0,842 g/cm3
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. 28,85 mm2/s ( 40 °C)



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Oxidizing properties : No data available

### 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.  
Chemical stability : No decomposition if stored and applied as directed.  
Possibility of hazardous reactions : No decomposition if stored and applied as directed.  
Conditions to avoid : excessive heat  
Incompatible materials : Chromic acid  
Strong oxidizing agents  
Hazardous decomposition products : No hazardous decomposition products are known.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Components:

##### **POLYALPHAOLEFIN:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

##### **DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

Acute oral toxicity : LD50 (Rat): > 15 g/kg  
Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

##### **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: The substance or mixture has no acute dermal toxicity



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### Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.:

- Acute oral toxicity : LD50 (Rat): > 2.500 mg/kg  
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  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.

### DODECYL HYDROXYPROPYL SULFIDE:

- Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
GLP: yes
- Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### ETHANOL, 2,2'-IMINOBIS-, N-TALLOW ALKYL DERIVS.:

- Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

### Skin corrosion/irritation

#### Product:

- Remarks : May cause skin irritation and/or dermatitis.

#### Components:

##### POLYALPHAOLEFIN:

- Species : Rabbit  
Result : No skin irritation

##### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

- Assessment : Slight, transient irritation
- Result : Slight, transient irritation

##### HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

- Assessment : Slight, transient irritation
- Result : Slight, transient irritation





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### Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.:

Species : Rabbit  
Result : Mild skin irritation

### 1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS.:

Assessment : Mild skin irritation  
Result : Mild skin irritation

### DODECYL HYDROXYPROPYL SULFIDE:

Species : Rabbit  
Result : No skin irritation

### BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS:

Result : Slight, transient irritation

### ETHANOL, 2,2'-IMINOBIIS-, N-TALLOW ALKYL DERIVS.:

Result : Corrosive after 1 to 4 hours of exposure

### Serious eye damage/eye irritation

#### Product:

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

#### Components:

##### POLYALPHAOLEFIN:

Species : Rabbit  
Result : Slight, transient irritation

##### DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Assessment : No eye irritation  
Result : No eye irritation

##### HYDROTREATED LIGHT PARAFFINIC DISTILLATE:

Assessment : Slight, transient irritation  
Result : Slight, transient irritation

### Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.:

Species : Rabbit  
Result : Slight, transient irritation



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### 1,2-PROPANEDIOL, 3-AMINO, N,N-DICOCO ALKYL DERIVS.:

Assessment : Slight, transient irritation  
Result : Slight, transient irritation

### DODECYL HYDROXYPROPYL SULFIDE:

Species : Rabbit  
Result : No eye irritation

### BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS:

Result : No eye irritation

### ETHANOL, 2,2'-IMINOBIIS-, N-TALLOW ALKYL DERIVS.:

Result : Corrosive

### Respiratory or skin sensitisation

#### Product:

Remarks : Causes sensitisation.

#### Components:

### POLYALPHAOLEFIN:

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

### Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.:

Test Type : Local lymph node assay (LLNA)  
Assessment : The product is a skin sensitiser, sub-category 1B.  
Method : OECD Test Guideline 429

### 1,2-PROPANEDIOL, 3-AMINO, N,N-DICOCO ALKYL DERIVS.:

Assessment : The product is a skin sensitiser, sub-category 1B.

### DODECYL HYDROXYPROPYL SULFIDE:

Test Type : Local lymph node assay  
Species : Guinea pig  
Assessment : May cause sensitisation by skin contact.  
Method : OECD Test Guideline 429

### BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS:



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Assessment : The product is a skin sensitiser, sub-category 1B.

### **ETHANOL, 2,2'-IMINOBIIS-, N-TALLOW ALKYL DERIVS.:**

Assessment : Does not cause skin sensitisation.

### **Germ cell mutagenicity**

#### **Components:**

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

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

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

#### **Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.:**

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

#### **DODECYL HYDROXYPROPYL SULFIDE:**

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

### **Carcinogenicity**

#### **Components:**

#### **DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

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



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### Reproductive toxicity

#### 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: NOAEL Mating/Fertility:  $\geq 600$   
Method: OECD Test Guideline 421  
Result: No effects on fertility and early embryonic development were detected.

### Aspiration toxicity

#### Components:

##### **Mineral Oil:**

May be fatal if swallowed and enters airways.

##### **POLYALPHAOLEFIN:**

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.

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.

##### **HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

May be fatal if swallowed and enters airways.

### Further information

#### Product:

Remarks : No data available

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **POLYALPHAOLEFIN:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)):  $> 1.000$  mg/l  
Exposure time: 96 h



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Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
Exposure time: 48 h  
Remarks: No toxicity at the limit of solubility

Toxicity to algae/aquatic plants : NOELR (algae): 1.000 mg/l  
Exposure time: 72 h  
Remarks: No toxicity at the limit of solubility

### **DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

### **HYDROTREATED LIGHT PARAFFINIC DISTILLATE:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

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

Toxicity to fish : (Pimephales promelas (fathead minnow)): 4,2 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4,6 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : LL50 (Desmodesmus subspicatus (green algae)): 3,5 mg/l  
End point: Biomass  
Exposure time: 72 h  
Test substance: WAF

LL50 (Desmodesmus subspicatus (green algae)): 63 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test substance: WAF

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Acute aquatic toxicity Category 2; Toxic to aquatic life.

Chronic aquatic toxicity : Chronic aquatic toxicity Category 2; Toxic to aquatic life with long lasting effects.



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### Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.:

- Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 610 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Test substance: WAF
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 77 mg/l  
Exposure time: 48 h  
Test Type: static test
- Toxicity to algae/aquatic plants : EL50 ( Desmodesmus subspicatus (green algae)): > 160 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test  
Test substance: WAF

### Ecotoxicology Assessment

- Acute aquatic toxicity : Acute aquatic toxicity Category 3; Harmful to aquatic life.
- Chronic aquatic toxicity : Not classified based on available information.

### 1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS.:

#### Ecotoxicology Assessment

- Acute aquatic toxicity : Harmful to aquatic life.
- Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

### DODECYL HYDROXYPROPYL SULFIDE:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,75 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 0,58 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: WAF
- Toxicity to algae/aquatic plants : EL50 ( Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: WAF



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M-Factor (Acute aquatic toxicity) : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL: 0,32 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

### 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.

### BENZENE, POLYPROPENE DERIVATIVES, SULFONATED, CALCIUM SALTS:

#### Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

### ETHANOL, 2,2'-IMINOBIS-, N-TALLOW ALKYL DERIVS.:

Toxicity to fish : LC50 (Fish): < 1 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): < 1 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): < 0,01 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

### 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.

### Persistence and degradability

#### Components:

##### **POLYALPHAOLEFIN:**

Biodegradability : Result: Inherently biodegradable.  
Biodegradation: 49 - 53 %  
Exposure time: 28 d  
Remarks: Expert judgement

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

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 9,6 %  
Exposure time: 28 d

##### **Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 67 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### **1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS.:**

Biodegradability : Result: Not readily biodegradable.

##### **DODECYL HYDROXYPROPYL SULFIDE:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

##### **ETHANOL, 2,2'-IMINOBIS-, N-TALLOW ALKYL DERIVS.:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 60 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D





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### Bioaccumulative potential

#### Components:

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

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

##### **DODECYL HYDROXYPROPYL SULFIDE:**

Partition coefficient: n-octanol/water : log Pow: 4,7 - 6,5

### Mobility in soil

No data available

### 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.

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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## 14. TRANSPORT INFORMATION

### International Regulations

#### **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good



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### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Special precautions for user

Not applicable

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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## 15. REGULATORY INFORMATION

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

#### 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
AIIC	: Not in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
ENCS	: Not in compliance with the inventory
KECI	: Not 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

#### 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)

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## 16. OTHER INFORMATION

Revision Date : 28.09.2023

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)



## SAFETY DATA SHEET

Valvoline™ MAXLIFE ATF 24/1L

Version: 1.0

Revision Date: 28.09.2023

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ACGIH / TWA : 8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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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