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|  | Print Date: 11.05.2020    |
|  | SDS Number: R0517978      |
| Tectyl® 550 ML WAX   | Version: 3.0              |
| VE20070  |                           |

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_DE

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : Tectyl® 550 ML  
WAX

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

Recommended use : Corrosion inhibitor

### 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 0 30-1  
92 40

### 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)

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

Specific target organ toxicity - single  
exposure, Category 3, Central nervous  
system


H336: May cause drowsiness or dizziness.

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)

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Hazard pictograms



Signal word

: Warning

Hazard statements

: H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard Statements

: EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements

: P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
**Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
**Response:**  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
**Storage:**  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

### 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

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| Chemical name   | CAS-No.<br>EC-No.<br>Registration number         | Classification<br>(REGULATION (EC)<br>No 1272/2008)  | Concentration (%)  |
|---|--|--|--------------------|
| Hydrocarbons, C9-C11,<br>n-alkanes, iso-<br>alkanes, cyclenes, <2%<br>aromatics | 01-2119463258-33-xxxx                            | Flam. Liq.3; H226<br>STOT SE3; H336<br>Asp. Tox.1; H304  | >= 40,00 - < 50,00 |
| Sulfonic acids,<br>petroleum, sodium salts                                      | 68608-26-4<br>271-781-5<br>01-2119527859-22-xxxx | Eye Irrit.2; H319  | >= 2,50 - < 5,00   |
| 2-butoxyethanol   | 111-76-2<br>203-905-0<br>01-2119475108-36-xxxx   | Acute Tox.4; H302<br>Acute Tox.4; H332<br>Acute Tox.3; H311<br>Skin Irrit.2; H315<br>Eye Irrit.2; H319                               | >= 1,00 - < 2,50   |
| 2-(2-Heptadec-8-enyl-<br>2-imidazolin-1-<br>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 | >= 0,25 - < 0,50   |
| (Z)-N-Methyl-N-(1-oxo-<br>9-octadecenyl)glycine                                 | 110-25-8<br>203-749-3<br>01-2119488991-20-xxxx   | Acute Tox.4; H332<br>Skin Irrit.2; H315<br>Eye Dam.1; H318<br>Aquatic Acute1;<br>H400  | >= 0,25 - < 0,50   |

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

General advice : Move out of dangerous area.  
Call a POISON CENTRE or doctor/physician if exposed or  
you feel unwell.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical  
advice.  
Consult a physician after significant exposure.

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- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
If on skin, rinse well with water.  
Wash contaminated clothing before re-use.  
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No symptoms known or expected.
- Risks : May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No hazards which require special first aid measures.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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

Hazardous combustion products : carbon dioxide and carbon monoxide  
Hydrocarbons  
sulfur compounds  
Aldehydes  
Ketones  
Organic acids

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.


Further information : Do not use a solid water stream as it may scatter and spread fire.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use a water spray to cool fully closed containers.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Evacuate personnel to safe areas.  
Remove all sources of ignition.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
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.  
Suppress (knock down) gases/vapours/mists with a water spray jet.

**6.2 Environmental precautions**

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

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Open drum carefully as content may be under pressure.  
Avoid formation of aerosol.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
Container hazardous when empty.  
Take precautionary measures against static discharges.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). No sparking tools should be used. Keep away from open flames, hot surfaces and sources of ignition. Use only explosion-proof equipment.


Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. No smoking.

Storage class (TRGS 510) : 3, Flammable liquids

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

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### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components      | CAS-No.  | Value type (Form of exposure) | Control parameters              | Basis       |
|-----------------|----------|-------------------------------|---------------------------------|-------------|
| 2-butoxyethanol | 111-76-2 | TWA                           | 20 ppm<br>98 mg/m <sup>3</sup>  | 2000/39/EC  |
|                 |          | STEL                          | 50 ppm<br>246 mg/m <sup>3</sup> | 2000/39/EC  |
|                 |          | AGW                           | 10 ppm<br>49 mg/m <sup>3</sup>  | DE TRGS 900 |

#### Biological occupational exposure limits

| Substance name                     | CAS-No.  | Control parameters                                    | Sampling time   | Basis    |
|------------------------------------|----------|---|---|----------|
| ETHYLENE GLYCOL<br>MONOBUTYL ETHER | 111-76-2 | butoxy acetic acid:<br>150 mg/g Creatinine<br>(Urine) | Immediately after exposure or after working hours, In case of long-term exposure: after more than one shift | TRGS 903 |
|                                    |          | butoxy acetic acid:<br>100 mg/l<br>(Urine)            | In case of long-term exposure: after more than one shift  | TRGS 903 |

### 8.2 Exposure controls

#### Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.


#### Personal protective equipment

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Hand protection

Remarks : Nitrile rubber Neoprene gloves

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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Skin and body protection : Wear as appropriate:  
Impervious clothing  
Safety shoes  
Flame-resistant clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : amber

Odour : solvent-like

Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : No data available

Flash point : 40 °C  
Method: Pensky Martens closed cup

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Density : ca. 0,86 g/cm<sup>3</sup> (20 °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, kinematic : > 21 mm<sup>2</sup>/s (40 °C)



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Oxidizing properties : No data available

## 9.2 Other information

No data available

## 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 : Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.  
excessive heat  
Do not allow evaporation to dryness.

### 10.5 Incompatible materials

Materials to avoid : Acids  
Amines  
Ammonia  
Bases  
chlorates  
Chlorine  
Oxidizing agents  
salts of strong bases


### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

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## Ingestion

### Acute toxicity

Not classified based on available information.

### Product:

Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg  
Method: Calculation method

### Components:

#### Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics:

|                           |   |
|---------------------------|---|
| Acute oral toxicity       | : LD50 (Rat, male and female): > 15.000 mg/kg<br>Method: OECD Test Guideline 423<br>Remarks: Information given is based on data obtained from similar substances.   |
| Acute inhalation toxicity | : LC50 (Rat): > 4,95 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: OECD Test Guideline 403<br>Assessment: No adverse effect has been observed in acute inhalation toxicity tests.<br>Remarks: Information given is based on data obtained from similar substances. |
| Acute dermal toxicity     | : LD50 (Rabbit, male and female): >= 3.160 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: No adverse effect has been observed in acute dermal toxicity tests.<br>Remarks: Information given is based on data obtained from similar substances.                               |

### Components:

#### SODIUM PETROLEUM SULFONATE:

|                     |  |
|---------------------|--|
| Acute oral toxicity | : LD50 (Rat): > 5 g/kg<br><br>LD50 (Rat): > 5.000 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: yes |
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Remarks: Information given is based on data obtained from similar substances.

Acute inhalation toxicity : LC50 (Rat): > 1,9 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Method: OECD Test Guideline 403  
 GLP: yes  
 Assessment: The component/mixture is classified as acute inhalation toxicity, category 5.  
 Remarks: No mortality observed at this dose.  
 Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
 Method: OECD Test Guideline 402  
 GLP: yes  
 Remarks: No mortality observed at this dose.  
 Information given is based on data obtained from similar substances.

**Components:**
**ETHYLENE GLYCOL MONOBUTYL ETHER:**


Acute oral toxicity : LD50 (Guinea pig): 1.200 mg/kg  
 Acute inhalation toxicity : LC50 (Rat): 2,17 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.  
 Acute dermal toxicity : LD50 (Rabbit): 400 - 500 mg/kg

**Components:**
**OLEYL HYDROXYETHYL IMIDAZOLINE:**

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

**Components:**
**OLEYL N-METHYLGLYCINE:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
 Acute inhalation toxicity : LC50 (Rat): > 1,01 - 1,85 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist

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#### Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

#### Components:

**Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics:**

Result: Slight, transient irritation

#### **SODIUM PETROLEUM SULFONATE:**

Species: Rabbit

Result: Slight, transient irritation

Remarks: Information given is based on data obtained from similar substances.

#### **ETHYLENE GLYCOL MONOBUTYL ETHER:**

Species: Rabbit

Result: Irritating to skin.

#### **OLEYL HYDROXYETHYL IMIDAZOLINE:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive after 1 to 4 hours of exposure

#### **OLEYL N-METHYLGLYCINE:**

Species: Rabbit

Result: Irritating to skin.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

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

#### Components:

**Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics:**

Result: No eye irritation

#### **SODIUM PETROLEUM SULFONATE:**

Species: Rabbit

Result: Irritating to eyes.

Remarks: Information given is based on data obtained from similar substances.

#### **ETHYLENE GLYCOL MONOBUTYL ETHER:**


Species: Rabbit

Result: Irritating to eyes.

#### **OLEYL HYDROXYETHYL IMIDAZOLINE:**

Result: Corrosive

#### **OLEYL N-METHYLGLYCINE:**

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Species: **Rabbit**  
Result: **Corrosive**

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

#### Components:

##### SODIUM PETROLEUM SULFONATE:

Assessment: **Does not cause skin sensitisation.**

Remarks: **Information given is based on data obtained from similar substances.**

##### ETHYLENE GLYCOL MONOBUTYL ETHER:

Test Type: **Maximisation Test**

Species: **Guinea pig**

Assessment: **Does not cause skin sensitisation.**

Method: **OECD Test Guideline 406**

##### OLEYL HYDROXYETHYL IMIDAZOLINE:

Species: **Guinea pig**

Assessment: **Does not cause skin sensitisation.**

Method: **OECD Test Guideline 406**

##### OLEYL N-METHYLGLYCINE:

Test Type: **Maximisation Test**

Species: **Guinea pig**

Assessment: **Does not cause skin sensitisation.**

#### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### SODIUM PETROLEUM SULFONATE:

Genotoxicity in vitro : Test Type: **Ames test**

Test species: **Salmonella typhimurium**

Metabolic activation: **with and without metabolic activation**

Result: **negative**

Remarks: **Information given is based on data obtained from similar substances.**

##### ETHYLENE GLYCOL MONOBUTYL ETHER:

Genotoxicity in vitro : Test Type: **Ames test**


Test species: **Salmonella typhimurium**

Metabolic activation: **with and without metabolic activation**

Result: **negative**

##### OLEYL N-METHYLGLYCINE:

Genotoxicity in vitro : Test Type: **Ames test**

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Test species: **Salmonella typhimurium**  
Metabolic activation: **with and without metabolic activation**  
Result: **negative**

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

May cause drowsiness or dizziness.

#### **Components:**

**Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics:**

Assessment: **May cause drowsiness or dizziness.**

#### **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.

#### **Product:**

No aspiration toxicity classification

#### **Components:**

**Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics:**


**May be fatal if swallowed and enters airways.**

#### **Further information**

#### **Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

## **SECTION 12: Ecological information**

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## 12.1 Toxicity

### Components:

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

|   |  |
|---|--|
| Toxicity to fish                                    | : <b>LL50</b> ( <i>Oncorhynchus mykiss</i> (rainbow trout)): > 1.000 mg/l<br>Exposure time: 96 h<br>Test Type: <b>semi-static test</b><br>Test substance: <b>WAF</b><br>Method: <b>OECD Test Guideline 203</b>               |
| Toxicity to daphnia and other aquatic invertebrates | : <b>EL50</b> ( <i>Daphnia magna</i> (Water flea)): 1.000 mg/l<br>Exposure time: 48 h<br>Test Type: <b>static test</b><br>Test substance: <b>WAF</b><br>Method: <b>OECD Test Guideline 202</b>                               |
| Toxicity to algae                                   | : <b>EL50</b> ( <i>Pseudokirchneriella subcapitata</i> (green algae)): > 1.000 mg/l<br>End point: <b>Growth inhibition</b><br>Exposure time: 72 h<br>Test Type: <b>static test</b><br>Method: <b>OECD Test Guideline 201</b> |

Sulfonic acids, petroleum, sodium salts

|   |  |
|---|--|
| Toxicity to fish                                    | : <b>LL50</b> ( <i>Pimephales promelas</i> (fathead minnow)): > 1.000 mg/l<br>Exposure time: 96 h<br>Test Type: <b>Renewal</b><br>Test substance: <b>WAF</b><br>Method: <b>OECD Test Guideline 203</b><br>GLP: <b>yes</b>  |
| Toxicity to daphnia and other aquatic invertebrates | : <b>EC50</b> ( <i>Daphnia magna</i> (Water flea)): > 1.000 mg/l<br>Exposure time: 48 h<br>Test Type: <b>static test</b><br>Test substance: <b>WAF</b><br>Remarks: <b>Information given is based on data obtained from similar substances.</b>   |
| Toxicity to algae                                   | : <b>NOEC</b> ( <i>Pseudokirchneriella subcapitata</i> (green algae)): > 1.000 mg/l<br>End point: <b>Growth inhibition</b><br>Exposure time: 72 h<br>Test Type: <b>static test</b><br>Test substance: <b>WAF</b><br>Remarks: <b>Information given is based on data obtained from similar substances.</b> |

2-butoxyethanol

**SAFETY DATA SHEET**

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|   |   |
|---|---|
| Toxicity to fish                                    | : <b>LC50 (Oncorhynchus mykiss (rainbow trout)):</b> 1.474 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 | : <b>EC50 (Daphnia magna (Water flea)):</b> 1.550 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202  |
| Toxicity to algae                                   | : <b>EC50 (Pseudokirchneriella subcapitata (green algae)):</b> 911 mg/l<br>End point: Growth inhibition<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201 |
| Toxicity to fish (Chronic toxicity)                 | : <b>NOEC: &gt; 100 mg/l</b><br>Exposure time: 21 d<br>Species: Danio rerio (zebra fish)<br>Test Type: semi-static test<br>Method: OECD Test Guideline 204                                  |


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

|   |  |
|---|--|
| Toxicity to fish                                    | : <b>LC50 (Danio rerio (zebra fish)):</b> 0,3 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 | : <b>EC50 (Daphnia magna (Water flea)):</b> 0,163 mg/l<br>Exposure time: 48 h<br>Test Type: semi-static test<br>Method: OECD Test Guideline 202                                      |
| Toxicity to algae                                   | : <b>EC50 (Desmodesmus subspicatus (green algae)):</b> 0,03 mg/l<br>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)        | : <b>10</b>  |
| M-Factor (Long-term (chronic) aquatic hazard)       | : <b>1</b>   |

**(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine**

|                  |   |
|------------------|---|
| Toxicity to fish | : <b>LC50 (Leuciscus idus (Golden orfe)):</b> 9,3 mg/l<br>Exposure time: 96 h |
|------------------|---|



|   |                           |
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|   |   |
|---|---|
|   | Test Type: <b>static test</b>   |
| Toxicity to daphnia and other aquatic invertebrates | : <b>EC50 (Daphnia magna (Water flea)): 0,43 mg/l</b><br>Exposure time: <b>48 h</b><br>Test Type: <b>static test</b>  |
| Toxicity to algae                                   | : <b>EC50 (Desmodesmus subspicatus (green algae)): 6,3 mg/l</b><br>End point: <b>Growth inhibition</b><br>Exposure time: <b>72 h</b><br>Test Type: <b>static test</b> |

## 12.2 Persistence and degradability

### Components:

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics

|                  |   |
|------------------|---|
| Biodegradability | : Result: <b>Readily biodegradable.</b> |
|                  | Biodegradation: <b>80 %</b>             |
|                  | Exposure time: <b>28 d</b>              |
|                  | Method: <b>OECD Test Guideline 301F</b> |

Sulfonic acids, petroleum, sodium salts

|                  |  |
|------------------|--|
| Biodegradability | : Result: <b>Not readily biodegradable.</b>  |
|                  | Biodegradation: <b>8 %</b>   |
|                  | Exposure time: <b>28 d</b>   |
|                  | Method: <b>OECD Test Guideline 301D</b>  |
|                  | Remarks: <b>Information given is based on data obtained from similar substances.</b> |

2-butoxyethanol

|                  |   |
|------------------|---|
| Biodegradability | : Result: <b>Readily biodegradable.</b> |
|                  | Biodegradation: <b>90,4 %</b>           |
|                  | Exposure time: <b>28 d</b>              |
|                  | Method: <b>OECD Test Guideline 301B</b> |

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


|                  |   |
|------------------|---|
| Biodegradability | : Result: <b>Not readily biodegradable.</b> |
|                  | Biodegradation: <b>1 %</b>                  |
|                  | Exposure time: <b>28 d</b>                  |
|                  | Method: <b>OECD Test Guideline 301B</b>     |

(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine

|                  |   |
|------------------|---|
| Biodegradability | : Result: <b>Readily biodegradable.</b> |
|                  | Biodegradation: <b>85 %</b>             |
|                  | Exposure time: <b>28 d</b>              |
|                  | Method: <b>OECD Test Guideline 301B</b> |

## 12.3 Bioaccumulative potential

### Components:

|  |                           |
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Sulfonic acids, petroleum, sodium salts

Partition coefficient: n-octanol/water : log Pow: **Calculated > 10**

2-butoxyethanol

Partition coefficient: n-octanol/water : log Pow: **0,83**

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

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

(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine

Partition coefficient: n-octanol/water : log Pow: **3,5 - 4,2**

#### 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.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : 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.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14: Transport information

### 14.1 UN number

ADN : UN 1139  
ADR : UN 1139  
RID : UN 1139  
IMDG : UN 1139  
IATA : UN 1139

### 14.2 UN proper shipping name

ADN : COATING SOLUTION  
ADR : COATING SOLUTION  
RID : COATING SOLUTION  
IMDG : COATING SOLUTION  
IATA : COATING SOLUTION


### 14.3 Transport hazard class(es)

ADN : 3  
ADR : 3  
RID : 3  
IMDG : 3  
IATA : 3

### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
**ADR**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (D/E)

**RID**

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Packing group : III  
 Classification Code : F1  
 Hazard Identification Number : 30  
 Labels : 3

#### IMDG

Packing group : III  
 Labels : 3  
 EmS Code : F-E, S-E

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 366  
 Packing instruction (LQ) : Y344  
 Packing group : III  
 Labels : Flammable Liquid

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 355  
 Packing instruction (LQ) : Y344  
 Packing group : III  
 Labels : Flammable Liquid

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : no

#### ADR

Environmentally hazardous : no

#### RID

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user


The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 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

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#### 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

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

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

REACH - Restrictions on the manufacture, placing on  
the market and use of certain dangerous substances,  
preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High  
Concern for Authorisation (Article 57). : Not applicable

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of  
major-accident hazards involving dangerous substances.

|     |                   |                       |                        |
|-----|-------------------|-----------------------|------------------------|
| P5c | FLAMMABLE LIQUIDS | Quantity 1<br>5.000 t | Quantity 2<br>50.000 t |
|-----|-------------------|-----------------------|------------------------|

Water contaminating class : WGK 2 obviously hazardous to water  
(Germany)

TA Luft List (Germany) : Total dust, Not applicable

: Inorganic substances in powdered form, Not applicable

: Inorganic substances in vapour or gaseous form, Not applicable


: Organic Substances, Class 1 < 0,01 %

: Carcinogenic substances, Class 3 < 0,01 %

: Mutagenic, others < 0,01 %

: Toxic to reproduction, Not applicable

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

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|       |  |
|-------|--|
| DSL   | : All components of this product are on the Canadian DSL |
| AICS  | On the inventory, or in compliance with the inventory    |
| ENCS  | On the inventory, or in compliance with the inventory    |
| KECI  | On the inventory, or in compliance with the inventory    |
| PICCS | On the inventory, or in compliance with the inventory    |
| IECSC | On the inventory, or in compliance with the inventory    |
| TCSI  | 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


### SECTION 16: Other information

#### Further information

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#### Full text of H-Statements

|      |   |
|------|---|
| H226 | Flammable liquid and vapour.  |
| 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.  |
| H315 | Causes skin irritation.   |
| H318 | Causes serious eye damage.  |
| H319 | Causes serious eye irritation.  |
| H332 | Harmful if inhaled.   |
| H336 | May cause drowsiness or dizziness.  |
| 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.                           |


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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).

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

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WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands  
 ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine  
 CLP : Classification, Labelling and Packaging  
 CSA : Chemical Safety Assessment  
 CSR : Chemical Safety Report  
 DNEL : Derived No Effect Level.  
 EINECS : European Inventory of Existing Commercial Chemical Substances.  
 ELINCS : European List of Notified Chemical Substances  
 PEC : Predicted Effect Concentration  
 PEL : Permissible Exposure Limits  
 PNEC : Predicted No Effect Concentration  
 R-phrases : Risk phrases  
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals  
 RID : Regulation Concerning the International Transport of Dangerous Goods by Rail  
 S-phrases: Safety phrases  
 WGK : German Water Hazard Class