		Page: 1
<b>SAFETY DATA SHEET</b>		Revision Date: 01.10.2018
		Print Date: 03.01.2019
		SDS Number: R0517978
Tectyl® 550 ML WAX		Version: 4.0
VE20070		

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 : Tectyl® 550 ML WAX

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

Recommended use : Corrosion inhibitor

<p><b>1.3 Details of the supplier of the safety data sheet</b>          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</p> <p>SDS@valvoline.com</p>	<p><b>1.4 Emergency telephone number</b>          00-800-825-8654 / 001-859-202-3865, or contact          your local emergency telephone number at 112</p> <p><b>Product Information</b>          +31 (0)78 654 3500 (in the Netherlands), or          contact your local CSR contact person</p>
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**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)**


**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

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, &lt;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.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

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**Hazardous components**



## SAFETY DATA SHEET

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Hydrocarbons, C9-C11, n-alkanes, iso- alkanes, cyclenes, <2% aromatics	01-2119463258-33-xxxx	Flam. Liq.3; H226 STOT SE3; H336 Asp. Tox.1; H304	>= 40,00 - < 50,00
Sulfonic acids, petroleum, sodium salts	68608-26-4 271-781-5 01-2119527859-22-xxxx	Eye Irrit.2; H319	>= 2,50 - < 5,00
2-butoxyethanol	111-76-2 203-905-0 01-2119475108-36-xxxx	Acute Tox.4; H302 Acute Tox.4; H332 Acute Tox.3; H311 Skin Irrit.2; H315 Eye Irrit.2; H319	>= 1,00 - < 2,50
2-(2-Heptadec-8-enyl- 2-imidazolin-1- yl)ethanol	95-38-5 202-414-9 01-2119777867-13-xxxx	Acute Tox.4; H302 Skin Corr.1C; H314 Eye Dam.1; H318 STOT RE2; H373 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0,25 - < 0,50
(Z)-N-Methyl-N-(1-oxo- 9-octadecenyl)glycine	110-25-8 203-749-3 01-2119488991-20-xxxx	Acute Tox.4; H332 Skin Irrit.2; H315 Eye Dam.1; H318 Aquatic Acute1; 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.


**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

- 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.

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**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.


**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

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.

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**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.



## SAFETY DATA SHEET

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

### 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.

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

### 7.3 Specific end use(s)

Specific use(s) : No data available


**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

**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 98 mg/m <sup>3</sup>	2000/39/EC
		STEL	50 ppm 246 mg/m <sup>3</sup>	2000/39/EC
		TWA	25 ppm	GB EH40
		STEL	50 ppm	GB EH40

**Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	butoxyacetic acid: 240 Millimoles per mole Creatinine (Urine)	After shift	GB EH40 BAT

**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.

Skin and body protection : Wear as appropriate:  
Impervious clothing  
Safety shoes


**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Version: 4.0

Tectyl® 550 ML WAX

VE20070

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.

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**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)

Oxidizing properties : No data available




**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

**9.2 Other information**

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 : 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.

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**SECTION 11: Toxicological information**
**11.1 Information on toxicological effects**

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


**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

**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**  
Method: **OECD Test Guideline 423**  
Remarks: **Information given is based on data obtained from similar substances.**

Acute inhalation toxicity : **LC50 (Rat): > 4,95 mg/l**  
Exposure time: **4 h**  
Test atmosphere: **vapour**  
Method: **OECD Test Guideline 403**  
Assessment: **No adverse effect has been observed in acute inhalation toxicity tests.**  
Remarks: **Information given is based on data obtained from similar substances.**

Acute dermal toxicity : **LD50 (Rabbit, male and female): >= 3.160 mg/kg**  
Method: **OECD Test Guideline 402**  
Assessment: **No adverse effect has been observed in acute dermal toxicity tests.**  
Remarks: **Information given is based on data obtained from similar substances.**

**Components:**
**SODIUM PETROLEUM SULFONATE:**

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

**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

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**

**Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

**Components:**

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

**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

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:**

Species: Rabbit

Result: Corrosive


**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

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

		Page: 14
<b>SAFETY DATA SHEET</b>		Revision Date: 01.10.2018
		Print Date: 03.01.2019
		SDS Number: R0517978
Tectyl® 550 ML WAX		Version: 4.0
VE20070		

**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 decrease the skin.

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components:**

**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, &lt;2% aromatics

Toxicity to fish : **LL50 (Oncorhynchus mykiss (rainbow trout))**: > 1.000 mg/l  
 Exposure time: 96 h  
 Test Type: **semi-static test**  
 Test substance: **WAF**  
 Method: **OECD Test Guideline 203**

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 (Pseudokirchneriella subcapitata (green algae))**: > 1.000 mg/l  
 End point: **Growth inhibition**  
 Exposure time: 72 h  
 Test Type: **static test**  
 Method: **OECD Test Guideline 201**

Sulfonic acids, petroleum, sodium salts

Toxicity to fish : **LL50 (Pimephales promelas (fathead minnow))**: > 1.000 mg/l  
 Exposure time: 96 h  
 Test Type: **Renewal**  
 Test substance: **WAF**  
 Method: **OECD Test Guideline 203**  
 GLP: **yes**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea))**: > 1.000 mg/l  
 Exposure time: 48 h  
 Test Type: **static test**  
 Test substance: **WAF**  
 Remarks: **Information given is based on data obtained from similar substances.**

Toxicity to algae : **NOEC (Pseudokirchneriella subcapitata (green algae))**: > 1.000 mg/l  
 End point: **Growth inhibition**  
 Exposure time: 72 h  
 Test Type: **static test**  
 Test substance: **WAF**  
 Remarks: **Information given is based on data obtained from similar substances.**

2-butoxyethanol

Toxicity to fish : **LC50 (Oncorhynchus mykiss (rainbow trout))**: 1.474 mg/l  
 Exposure time: 96 h  
 Test Type: **static test**  
 Method: **OECD Test Guideline 203**

**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): 1.550 mg/l**  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202

Toxicity to algae : **EC50 (Pseudokirchneriella subcapitata (green algae)): 911 mg/l**  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : **NOEC: > 100 mg/l**  
 Exposure time: 21 d  
 Species: Danio rerio (zebra fish)  
 Test Type: semi-static test  
 Method: OECD Test Guideline 204

**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**

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

Toxicity to fish : **LC50 (Leuciscus idus (Golden orfe)): 9,3 mg/l**  
 Exposure time: 96 h  
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): 0,43 mg/l**  
 Exposure time: 48 h



**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

Test Type: **static test**

Toxicity to algae : **EC50 (Desmodesmus subspicatus (green algae)): 6,3 mg/l**  
 End point: **Growth inhibition**  
 Exposure time: **72 h**  
 Test Type: **static test**

**12.2 Persistence and degradability****Components:**

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, &lt;2% aromatics

Biodegradability : Result: **Readily biodegradable.**  
 Biodegradation: **80 %**  
 Exposure time: **28 d**  
 Method: **OECD Test Guideline 301F**

Sulfonic acids, petroleum, sodium salts

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

2-butoxyethanol

Biodegradability : Result: **Readily biodegradable.**  
 Biodegradation: **90,4 %**  
 Exposure time: **28 d**  
 Method: **OECD Test Guideline 301B**

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

Biodegradability : Result: **Not readily biodegradable.**  
 Biodegradation: **1 %**  
 Exposure time: **28 d**  
 Method: **OECD Test Guideline 301B**

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

Biodegradability : Result: **Readily biodegradable.**  
 Biodegradation: **85 %**  
 Exposure time: **28 d**  
 Method: **OECD Test Guideline 301B**

**12.3 Bioaccumulative potential****Components:**

Sulfonic acids, petroleum, sodium salts

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

**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

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

**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

**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**  
 Packing group : III  
 Classification Code : F1  
 Hazard Identification Number : 30

		Page: 20
<b>SAFETY DATA SHEET</b>		Revision Date: 01.10.2018
		Print Date: 03.01.2019
		SDS Number: R0517978
Tectyl® 550 ML WAX		Version: 4.0
VE20070		

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.

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**SECTION 15: Regulatory information**

		Page: 21
<b>SAFETY DATA SHEET</b>		Revision Date: 01.10.2018
		Print Date: 03.01.2019
		SDS Number: R0517978
Tectyl® 550 ML WAX		Version: 4.0
VE20070		

**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.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t

**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	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**

		Page: 22
<b>SAFETY DATA SHEET</b>		Revision Date: 01.10.2018
		Print Date: 03.01.2019
		SDS Number: R0517978
Tectyl® 550 ML WAX		Version: 4.0
VE20070		

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

Revision Date: 01.10.2018

### Full text of H-Statements

<b>H226</b>	Flammable liquid and vapour.
<b>H302</b>	Harmful if swallowed.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H311</b>	Toxic in contact with skin.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H315</b>	Causes skin irritation.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H332</b>	Harmful if inhaled.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure if swallowed.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very 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).

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.


**SAFETY DATA SHEET**

Revision Date: 01.10.2018

Print Date: 03.01.2019

SDS Number: R0517978

Tectyl® 550 ML WAX

Version: 4.0

VE20070

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands

ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.

ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine

CLP : Classification, Labelling and Packaging

CSA : Chemical Safety Assessment

CSR : Chemical Safety Report

DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

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

	Page: 24
<b>SAFETY DATA SHEET</b>	Revision Date: 01.10.2018
	Print Date: 03.01.2019
Tectyl® 550 ML WAX	SDS Number: R0517978
VE20070	Version: 4.0

S-phrase: Safety phrase  
WGK : German Water Hazard Class