



**SAFETY DATA SHEET**  
Tectyl® MULTIPURPOSE AMBER RUST  
PREVENTATIVE

Version: 5.0

Revision Date: 14.04.2020

Print Date: 22/04/2020

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

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

**1.1 Product identifier**

Trade name : Tectyl® MULTIPURPOSE AMBER  
RUST PREVENTATIVE

Product code : 887100

**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 +31  
030 274 88 88

**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)**

Aerosols, Category 1

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

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

H336: May cause drowsiness or dizziness.



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## 2.2 Label elements

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

Hazard pictograms :



Signal word :

Danger

Hazard statements :

H222  
H229  
H336

Extremely flammable aerosol.  
Pressurised container: May burst if heated.  
May cause drowsiness or dizziness.

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.

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

P271

Use only outdoors or in a well-ventilated area.

**Storage:**

P405

Store locked up.

P410 + P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

**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.

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## SECTION 3: Composition/information on ingredients

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**3.2 Mixtures**

**Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Propane	74-98-6 200-827-9 01-2119486944-21-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 25,00 - < 40,00
Hydrocarbons, C9-C11, n-alkanes, iso- alkanes, cyclenes, <2% aromatics	64742-48-9 919-857-5 01-2119463258-33-xxxx	Flam. Liq.3; H226 STOT SE3; H336 Asp. Tox.1; H304	>= 20,00 - < 25,00
Butane	106-97-8 203-448-7 01-2119474691-32-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 15,00 - < 25,00
Sulfonic acids, petroleum, sodium salts	68608-26-4 271-781-5 01-2119527859-22-xxxx	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	>= 0,10 - < 0,25
(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	>= 0,10 - < 0,25
Substances with a workplace exposure limit :			
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6 265-156-6 01-2119480375-34-xxxx		>= 1,00 - < 2,50
(2- Methoxymethylethoxy)p ropanol	34590-94-8 252-104-2 01-2119450011-60-xxxx		>= 1,00 - < 2,50



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For explanation of abbreviations see section 16.

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

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

- General advice : 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.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : 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.

### **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**



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### 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.  
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

### 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 : 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.  
Ensure adequate ventilation.



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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.

### 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.

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

### 6.4 Reference to other sections

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

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Open drum carefully as content may be under pressure. 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. 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). 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.

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

Requirements for storage areas and containers : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or



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red-hot objects. 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

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

**8.1 Control parameters**

**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	TLV-8hr (Mist)	5 mg/m3 Mist	NL WG
(2-Methoxymethylethoxy)propanol	34590-94-8	TWA	50 ppm 308 mg/m3	2000/39/EC
		TLV-8hr	300 mg/m3	NL WG

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

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol : End Use: **Workers**  
Exposure routes: **Inhalation**  
Potential health effects: **Long-term systemic effects**  
Value: **0,46 mg/m3RD TOX - Repeated dose toxicity**  
End Use: **Workers**  
Exposure routes: **Inhalation**  
Potential health effects: **Acute systemic effects**  
Value: **14 mg/m3RD TOX - Repeated dose toxicity**  
End Use: **Workers**  
Exposure routes: **Dermal**  
Potential health effects: **Long-term systemic effects**  
Value: **0,06 mg/kgRD TOX - Repeated dose toxicity**  
End Use: **Workers**  
Exposure routes: **Dermal**  
Potential health effects: **Acute systemic effects**



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Value: 2 mg/kgRD TOX - Repeated dose toxicity

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

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol	: Sewage treatment plant Value: 0,27 mg/l Fresh water sediment Value: 0,376 mg/kg Marine sediment Value: 0,0376 mg/kg Soil Value: 0,075 mg/kg
(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine	: Sewage treatment plant Value: 13 mg/l

**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  
Material : nitrile rubber  
Break through time : 480 min  
Glove thickness : 0,38 mm

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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  
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.  
In the case of dust or aerosol formation use respirator with an approved filter.





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Filter type : Combined particulates, organic gas and low boiling vapour type (AX-P)

In the case of vapour formation use a respirator with an approved filter.  
In the case of dust or aerosol formation use 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 : aerosol

Colour : amber

Odour : solvent-like

Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : < 0 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : ca. 0,70 g/cm<sup>3</sup> (20 °C)



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Solubility(ies)  
Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

**9.2 Other information**

Self-ignition : No data available

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : 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.  
Exposure to air.

**10.5 Incompatible materials**

Materials to avoid : Acids  
Oxidizing agents  
salts of strong bases



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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  
Ingestion

#### Acute toxicity

Not classified based on available information.

#### Components:

##### **PROPANE:**

Acute inhalation toxicity : **LC50 (Rat): 1.237 mg/l**  
Exposure time: **2 h**  
Test atmosphere: **gas**  
Assessment: **Not classified as acutely toxic by inhalation under GHS.**  
Remarks: **Information given is based on data obtained from similar substances.**

#### 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.**



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Acute dermal toxicity : LD50 (Rabbit, male and female):  $\geq 3.160$  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:**

**BUTANE NORMAL:**

Acute inhalation toxicity : LC50 (Mouse): 680 mg/l  
Exposure time: 2 h  
  
LC50 (Rat):  $> 50000$  ppm  
Exposure time: 2 h  
Test atmosphere: gas

**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.

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:**



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**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

**Components:**

**DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC:**

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

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

**Components:**

**DIPROPYLENE GLYCOL MONOMETHYL ETHER:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat, female): > 553 ppm  
Exposure time: 8 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Remarks: No mortality observed at this dose.

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

**Skin corrosion/irritation**

Not classified based on available information.

**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.

**OLEYL HYDROXYETHYL IMIDAZOLINE:**



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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.**

**DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC:**

Result: **No skin irritation**

**DIPROPYLENE GLYCOL MONOMETHYL ETHER:**

Species: **Rabbit**  
Result: **No skin irritation**

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Unlikely to cause eye irritation or injury.

**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.**

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Result: **Corrosive**

**OLEYL N-METHYLGLYCINE:**

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

**DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC:**

Result: **Slight, transient irritation**

**DIPROPYLENE GLYCOL MONOMETHYL ETHER:**

Species: **Rabbit**  
Result: **Slight, transient irritation**

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.



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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.

**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.

**DIPROPYLENE GLYCOL MONOMETHYL ETHER:**

Species: Humans

Assessment: Does not cause skin sensitisation.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**PROPANE:**

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.

**BUTANE NORMAL:**

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

**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.



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**OLEYL N-METHYLGLYCINE:**

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

**DIPROPYLENE GLYCOL MONOMETHYL ETHER:**

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

**Carcinogenicity**

Not classified based on available information.

**Components:**

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

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

**DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC:**

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

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

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.





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**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.

**Components:**

**DIPROPYLENE GLYCOL MONOMETHYL ETHER:**

Remarks: Central nervous system

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components:**

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <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**

Butane

Toxicity to fish : Remarks: **No toxicity at the limit of solubility QSAR**



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Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea))**: Expected > 10 - < 100 mg/l  
Exposure time: 48 h  
Remarks: QSAR

Toxicity to algae : **EC50 (green algae)**: Expected 7,7 mg/l  
Exposure time: 96 h  
Remarks: QSAR

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-(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



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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**  
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**

### (2-Methoxymethylethoxy)propanol

Toxicity to fish : **LC50 (Pimephales promelas (fathead minnow)): > 10.000 mg/l**  
Exposure time: **96 h**  
Test Type: **static test**

Toxicity to daphnia and other aquatic invertebrates : **LC50 (Daphnia magna (Water flea)): 1.919 mg/l**  
Exposure time: **48 h**

Toxicity to algae : **EC50 (Pseudokirchneriella subcapitata (green algae)): > 969 mg/l**  
End point: **Growth inhibition**  
Exposure time: **72 h**

## 12.2 Persistence and degradability

### Components:

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

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

Butane

Biodegradability : Result: **Readily biodegradable.**



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

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-(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**

(2-Methoxymethylethoxy)propanol

Biodegradability : Result: **Readily biodegradable.**  
Biodegradation: **75 %**  
Exposure time: **28 d**  
Method: **OECD Test Guideline 301F**

Chemical Oxygen Demand (COD) : **2,02 mg/g**

ThOD : **2,06 mg/g**

### 12.3 Bioaccumulative potential

#### Components:

Propane

Partition coefficient: n-octanol/water : log Pow: **2,36**

Butane

Partition coefficient: n-octanol/water : log Pow: **2,89**

Sulfonic acids, petroleum, sodium salts

Partition coefficient: n- : log Pow: **Calculated > 10**



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octanol/water

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**

(2-Methoxymethylethoxy)propanol

Partition coefficient: n-octanol/water : log Pow: **0,004**

#### 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.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

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

Contaminated packaging : Empty remaining contents.  
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.



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**SECTION 14: Transport information**

**14.1 UN number**

**ADN** : UN 1950  
**ADR** : UN 1950  
**RID** : UN 1950  
**IMDG** : UN 1950  
**IATA** : UN 1950

**14.2 UN proper shipping name**

**ADN** : AEROSOLS  
**ADR** : AEROSOLS  
**RID** : AEROSOLS  
**IMDG** : AEROSOLS  
**IATA** : AEROSOLS

**14.3 Transport hazard class(es)**

**ADN** : 2  
**ADR** : 2  
**RID** : 2  
**IMDG** : 2.1  
**IATA** : 2.1

**14.4 Packing group**

**ADN**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1

**ADR**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

**RID**  
Packing group : Not assigned by regulation  
Classification Code : 5F



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Hazard Identification Number : 23  
Labels : 2.1

**IMDG**

Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

**IATA (Cargo)**

Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

**IATA (Passenger)**

Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

**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**



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

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

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

		Quantity 1	Quantity 2
8	Extremely flammable	10 t	50 t
9b	Dangerous for the environment	200 t	500 t

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

P3a	FLAMMABLE AEROSOLS	150 t	500 t
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18	Liquefied extremely flammable gases (including LPG) and natural gas	50 t	200 t
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General Assessment Methodology (GAM)

Aquatic harmfulness : Z2 Biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ noreprotoxicity/ bioaccumulative potential or toxicity)

Abatement effort : Z Substances of Very High Concern, SVHC: set of





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substances that are most hazardous for humans and the environment.

**Other regulations:**

Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

**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**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**15.2 Chemical safety assessment**

No data available

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**SECTION 16: Other information**

**Further information**

Internal information : R0524073



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**Full text of H-Statements**

<b>H220</b>	Extremely flammable gas.
<b>H226</b>	Flammable liquid and vapour.
<b>H280</b>	Contains gas under pressure; may explode if heated.
<b>H302</b>	Harmful if swallowed.
<b>H304</b>	May be fatal if swallowed and enters airways.
<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.

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.



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