



SAFETY DATA SHEET
Tectyl™ MULTIPURPOSE AMBER RUST
PREVENTATIVE

Version: 5.0

Revision Date: 14.04.2020

Print Date: 06/10/2020

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™ 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 112

Product Information

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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.

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 |
| 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 : | | | |
| Butane | 106-97-8 203-448-7 01-2119474691-32-xxxx | Flam. Gas1; H220 Press. GasLiquefied gas; H280 | >= 15,00 - < 25,00 |
| (2- Methoxymethylethoxy)p ropanol | 34590-94-8 252-104-2 01-2119450011-60-xxxx | | >= 1,00 - < 2,50 |

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.

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



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Unsuitable extinguishing media : Foam
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
: 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.

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.
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.



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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.

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 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.



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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 |
|---------------------------------|------------|-------------------------------|------------------------------------|------------|
| Butane | 106-97-8 | STEL | 750 ppm 1.810 mg/m ³ | GB EH40 |
| | | TWA | 600 ppm 1.450 mg/m ³ | GB EH40 |
| (2-Methoxymethylethoxy)propanol | 34590-94-8 | TWA | 50 ppm 308 mg/m ³ | 2000/39/EC |
| | | TWA | 50 ppm 308 mg/m ³ | GB EH40 |

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**
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**



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|---|--|
| imidazolin-1-yl)ethanol | 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.

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



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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.

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 ³ (20 °C) |
| Solubility(ies) | | |
| Water solubility | : | insoluble |



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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

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
strong bases

10.6 Hazardous decomposition products



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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.**

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.**



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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.

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:

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:

BUTANE NORMAL:



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Acute inhalation toxicity : LC50 (Mouse): 680 mg/l
Exposure time: 2 h

LC50 (Rat): > 50000 ppm
Exposure time: 2 h
Test atmosphere: gas

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:

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.

DIPROPYLENE GLYCOL MONOMETHYL ETHER:

Species: Rabbit
Result: No skin irritation



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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**

DIPROPYLENE GLYCOL MONOMETHYL ETHER:

Species: **Rabbit**

Result: **Slight, transient irritation**

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.**

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:



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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.**

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.**

OLEYL N-METHYLGLYCINE:

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

BUTANE NORMAL:

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



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

Reproductive toxicity

Not classified based on available information.

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.

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



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12.1 Toxicity

Components:

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

| | |
|---|--|
| Toxicity to fish | : LL50 (<i>Oncorhynchus mykiss</i> (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 (<i>Daphnia magna</i> (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 (<i>Pseudokirchneriella subcapitata</i> (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 (<i>Pimephales promelas</i> (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 (<i>Daphnia magna</i> (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 (<i>Pseudokirchneriella subcapitata</i> (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



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| | |
|---|---|
| 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 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 |

Butane

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



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(2-Methoxymethylethoxy)propanol

| | |
|---|---|
| Toxicity to fish | : LC50 (<i>Pimephales promelas</i> (fathead minnow)): > 10.000 mg/l Exposure time: 96 h Test Type: static test |
| Toxicity to daphnia and other aquatic invertebrates | : LC50 (<i>Daphnia magna</i> (Water flea)): 1.919 mg/l Exposure time: 48 h |
| Toxicity to algae | : EC50 (<i>Pseudokirchneriella subcapitata</i> (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 |
|------------------|---|

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 |
|------------------|---|

Butane

| | |
|------------------|---|
| Biodegradability | : Result: Readily biodegradable. Remarks: Information given is based on data obtained from similar substances. |
|------------------|---|



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(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**

Sulfonic acids, petroleum, sodium salts

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

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**

Butane

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

(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



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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.

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.

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



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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
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



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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

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



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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 |
| 18 | Liquefied extremely flammable gases (including LPG) and natural gas | 50 t | 200 t |

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 |



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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

Internal information : R0524073

Full text of H-Statements

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

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (+31 (0)78 654 3500).



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Sources of key data used to compile the Safety Data Sheet

Valvoline internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

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

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

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

H-statement : Hazard Statement

IATA : International Air Transport Association.

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

ICAO : International Civil Aviation Organization

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

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

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

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands

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

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

CLP : Classification, Labelling and Packaging

CSA : Chemical Safety Assessment

CSR : Chemical Safety Report



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DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

R-phrase : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

S-phrase: Safety phrase

WGK : German Water Hazard Class