


SAFETY DATA SHEET

Revision Date: 26.11.2018

Print Date: 12.02.2019

SDS Number: R0524263

Version: 5.0

Tectyl® TECTYL MULTIPURPOSE TRANSPARENT 12/500ML
RUST PREVENTATIVE

887099

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® TECTYL MULTIPURPOSE TRANSPARENT
12/500ML
RUST PREVENTATIVE

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

Recommended use : Coatings

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.

Long-term (chronic) aquatic hazard,
Category 3

H412: Harmful to aquatic life with long lasting
effects.


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2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.
 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.
 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
 Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

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****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	>= 15,00 - < 25,00
Hydrocarbons, C9-C11, n-alkanes, iso- alkanes, cyclenes, <2% aromatics	919-857-5 01-2119463258-33-xxxx	Flam. Liq.3; H226 STOT SE3; H336 Asp. Tox.1; H304	>= 15,00 - < 20,00
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	920-750-0 01-2119473851-33-xxxx	Flam. Liq.2; H225 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 10,00 - < 15,00
4-Hydroxy-4- methylpentan-2-one	123-42-2 204-626-7 01-2119473975-21-xxxx	Eye Irrit.2; H319 STOT SE3; H335	>= 1,00 - < 2,50
(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	>= 0,50 - < 1,00
ALCOHOLS, C11-14- ISO-, C13-RICH, ETHOXYLATED	78330-21-9	Acute Tox.4; H302 Eye Dam.1; H318 Aquatic Acute1; H400 Aquatic Chronic2; H411	>= 0,10 - < 0,25
Substances with a workplace exposure limit :			
dimethyl ether	115-10-6 204-065-8 01-2119472128-37-0005	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 25,00 - < 40,00
2-Methoxy-1- methylethyl acetate	108-65-6 203-603-9	Flam. Liq.3; H226	>= 1,00 - < 2,50


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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.
- 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.
Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures


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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 (CO₂)
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
various hydrocarbons
Acetone
acid smoke and fumes

carbon dioxide and carbon monoxide
Hydrocarbons
Acetone
acid smoke and fumes

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


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6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.
Remove all sources of ignition.
Ensure adequate ventilation.
Avoid breathing dust.
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.

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.


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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.

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
dimethyl ether	115-10-6	TWA	1.000 ppm 1.920 mg/m ³	2000/39/EC
		TWA	400 ppm 766 mg/m ³	GB EH40
		STEL	500 ppm 958 mg/m ³	GB EH40
4-Hydroxy-4-methylpentan-2-one	123-42-2	TWA	50 ppm 241 mg/m ³	GB EH40
		STEL	75 ppm 362 mg/m ³	GB EH40
2-Methoxy-1-methylethyl acetate	108-65-6	STEL	100 ppm 550 mg/m ³	2000/39/EC
		TWA	50 ppm 275 mg/m ³	2000/39/EC
		TWA	50 ppm 274 mg/m ³	GB EH40
		STEL	100 ppm 548 mg/m ³	GB EH40

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

dimethyl ether : End Use: **Workers**


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Exposure routes: **Inhalation**
 Potential health effects: **Long-term systemic effects**
 Value: **1894 mg/m3**
 End Use: **Consumers**
 Exposure routes: **Inhalation**
 Potential health effects: **Long-term systemic effects**
 Value: **471 mg/m3**

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

(Z)-N-Methyl-N-(1-oxo-9-octadecenyl)glycine dimethyl ether : **Sewage treatment plant**
 Value: **13 mg/l**
 : **Fresh water**
 Value: **0,155 mg/l**
Marine water
 Value: **0,016 mg/l**
Sewage treatment plant
 Value: **160 mg/l**
Fresh water sediment
 Value: **0,681 mg/kg**
Marine sediment
 Value: **0,069 mg/kg**
Soil
 Value: **0,045 mg/kg**

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

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.


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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.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties

Appearance : aerosol

Colour : transparent

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 : Not applicable

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. 0,72 g/cm³ (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
Exposure to air.
Exposure to moisture

10.5 Incompatible materials

Materials to avoid : aluminum
aluminium hydride
Carbon monoxide
halogens
Lead
lithium aluminum hydride
Oxygen
peroxides

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Strong acids
strong alkalis
Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : acrid smoke and fumes
carbon dioxide and carbon monoxide
various hydrocarbons
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.**

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

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:**Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:**

Acute oral toxicity : LD50 (Rat, male and female): $>$ 5.000 mg/kg
Acute inhalation toxicity : LC50 (Rat, male and female): $>$ 23,3 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.
Acute dermal toxicity : LD50 (Rat, male and female): $>$ 2.800 - 3.100 mg/kg

Components:**DIACETONE ALCOHOL:**

Acute oral toxicity : LD50 (Rat): 3.002 mg/kg
Method: OECD Test Guideline 401
Acute dermal toxicity : LD50 (Rabbit): 13.500 mg/kg
LD50 (Rat): $>$ 1.875 mg/kg
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

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:**ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED:**

Acute oral toxicity : LD50 (Rat, female): 1.940 mg/kg

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Method: **OECD Test Guideline 401****Components:****DIMETHYL ETHER:**

Acute inhalation toxicity : **LC50 (Mouse): 494,36 mg/l**
Exposure time: **15 min**
Test atmosphere: **gas**

LC50 (Mouse): 385,94 mg/l
Exposure time: **30 min**
Test atmosphere: **gas**

LC50 (Rat): 164000 ppm
Exposure time: **4 h**
Test atmosphere: **gas**

Components:**PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE:**

Acute oral toxicity : **LD50 (Rat): 8.532 mg/kg**

Acute inhalation toxicity : **LC50 (Rat): > 1728 ppm**
Exposure time: **4 h**
Test atmosphere: **vapour**
Assessment: **No adverse effect has been observed in acute inhalation toxicity tests.**

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

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:**Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclenes, <2% aromatics:**Result: **Slight, transient irritation****Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:**

Species: **Rabbit**
Method: **OECD Test Guideline 404**
Result: **Slight, transient irritation**

DIACETONE ALCOHOL:

Species: **Rabbit**
Method: **OECD Test Guideline 404**

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Result: Slight, transient irritation

OLEYL N-METHYLGLYCINE:

Species: Rabbit

Result: Irritating to skin.

ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED:

Species: Rabbit

Result: No skin irritation

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE:

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

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

Species: Rabbit

Result: Slight, transient irritation

DIACETONE ALCOHOL:

Species: Human

Result: Irritating to eyes.

Remarks: 100 ppm for 15 minutes

OLEYL N-METHYLGLYCINE:

Species: Rabbit

Result: Corrosive

ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED:

Species: Rabbit

Result: Corrosive

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE:

Result: Slight, transient irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

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Components:**Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:**

Test Type: **Maximisation Test**
Species: **Guinea pig**
Assessment: **Does not cause skin sensitisation.**
Method: **OECD Test Guideline 406**

DIACETONE ALCOHOL:

Test Type: **Maximisation Test**
Species: **Guinea pig**
Method: **OECD Test Guideline 406**

OLEYL N-METHYLGLYCINE:

Test Type: **Maximisation Test**
Species: **Guinea pig**
Assessment: **Does not cause skin sensitisation.**

ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED:

Species: **Guinea pig**
Assessment: **Does not cause skin sensitisation.**
Method: **OECD Test Guideline 406**

DIMETHYL ETHER:

Remarks: **Not applicable**

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE:

Test Type: **Maximisation Test**
Species: **Guinea pig**
Assessment: **Did not cause sensitisation on laboratory animals.**
Method: **OECD Test Guideline 406**

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.**

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

Genotoxicity in vitro : Test Type: **Ames test**
Metabolic activation: **with and without metabolic activation**
Method: **OECD Test Guideline 471**
Result: **negative**

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	: Method: OECD Test Guideline 473 Result: negative
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Test species: Mouse Application Route: Oral Method: OECD Test Guideline 474 Result: negative
Germ cell mutagenicity-Assessment	: Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

OLEYL N-METHYLGLYCINE:

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

Genotoxicity in vitro	: Test Type: Ames test Result: negative
	: Test Type: Chromosome aberration test in vitro Result: negative
	: Test Type: In vitro mammalian cell gene mutation test Result: negative
	: Test Type: unscheduled DNA synthesis assay Result: negative
Genotoxicity in vivo	: Test species: Drosophila melanogaster (vinegar fly) Result: negative

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE:

Genotoxicity in vitro	: Test Type: Ames test Test species: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes
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Carcinogenicity

Not classified based on available information.

Components:**Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:**

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Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

DIMETHYL ETHER:

Species: Rat

Application Route: inhalation (vapour)

NOAEL: No observed adverse effect level: 47,106 mg/l

Result: negative

Reproductive toxicity

Not classified based on available information.

Components:**DIMETHYL ETHER:**

Effects on fertility : Application Route: inhalation (gas)
Result: Animal testing did not show any effects on fertility.

Effects on foetal development : Application Route: inhalation (vapour)
Method: OECD Test Guideline 414
Result: No teratogenic effects
GLP: yes

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.

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

Assessment: May cause drowsiness or dizziness.

DIACETONE ALCOHOL:

Assessment: May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity**Components:****DIMETHYL ETHER:**

Species: Rat

No observed adverse effect level: 47,106 g/m3

Application Route: inhalation (vapour)

Method: OECD Test Guideline 452

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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.

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

May be fatal if swallowed and enters airways.

Further information**Product:**

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

SECTION 12: Ecological information**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

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Toxicity to fish : **LL50 (Oncorhynchus mykiss (rainbow trout)): 3 - 10 mg/l**
 Exposure time: 96 h

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	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)): 4,6 - 10 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)): 10 - 30 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 0,17 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: static test Test substance: WAF Method: OECD Test Guideline 211

Ecotoxicology Assessment

Long-term (chronic) aquatic hazard : **Toxic to aquatic life with long lasting effects.**

4-Hydroxy-4-methylpentan-2-one

Toxicity to fish	: LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 1.000 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202
Toxicity to algae	: ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201

(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**

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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**

ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED

Toxicity to fish : **LC50 (Danio rerio (zebra fish)): > 1 - 10 mg/l**
Exposure time: **96 h**
Method: **OECD Test Guideline 203**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): 5 - 10 mg/l**
Exposure time: **48 h**
Method: **OECD Test Guideline 202**

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **EC50: 0,77 mg/l**

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : **Very toxic to aquatic life.**

Long-term (chronic) aquatic hazard : **Toxic to aquatic life with long lasting effects.**

dimethyl ether

Toxicity to fish : **LC50 (Poecilia reticulata (guppy)): > 4,1 g/l**
Exposure time: **96 h**
Test Type: **semi-static test**
Remarks: **No toxicity at the limit of solubility**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna Straus): > 4,4 g/l**
Exposure time: **48 h**
Test Type: **static test**
Remarks: **No toxicity at the limit of solubility**

Toxicity to algae : **EC50 : 155 mg/l**
Exposure time: **96 h**
Remarks: **QSAR**

Toxicity to bacteria : **EC10 (Pseudomonas putida): > 1.600 mg/l**

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2-Methoxy-1-methylethyl acetate

Toxicity to fish	: LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 373 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (microalgae)): > 1.000 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes NOEC (Pseudokirchneriella subcapitata (microalgae)): 1.000 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to fish (Chronic toxicity)	: NOEC: 47,5 mg/l Exposure time: 14 d Species: Oryzias latipes (Orange-red killifish) Test Type: flow-through test Method: OECD Test Guideline 204 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: > 100 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Method: OECD Test Guideline 211 GLP: yes

12.2 Persistence and degradability**Components:**

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

Biodegradability : Result: **Readily biodegradable.**

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Biodegradation: **80 %**
 Exposure time: **28 d**
 Method: **OECD Test Guideline 301F**

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Biodegradability : Inoculum: **activated sludge**
 Biodegradation: **98 %**
 Exposure time: **28 d**
 Method: **OECD Test Guideline 301F**
 Remarks: **Information given is based on data obtained from similar substances.**

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

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

ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED

Biodegradability : Concentration: **20 mg/l**
 Result: **Readily biodegradable.**
 Biodegradation: **> 60 %**
 Exposure time: **28 d**
 Method: **OECD Test Guideline 301F**

dimethyl ether

Biodegradability : Test Type: **aerobic**
 Inoculum: **activated sludge**
 Concentration: **2 mg/l**
 Result: **Not readily biodegradable.**
 Biodegradation: **5 %**
 Method: **OECD Test Guideline 301D**
 Remarks: **According to the results of tests of biodegradability this product is not readily biodegradable.**

2-Methoxy-1-methylethyl acetate

Biodegradability : Result: **Readily biodegradable.**
 Biodegradation: **83 %**
 Exposure time: **28 d**
 Method: **OECD Test Guideline 301F**

12.3 Bioaccumulative potential**Components:**

Propane

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

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4-Hydroxy-4-methylpentan-2-one

 Partition coefficient: n-octanol/water : log Pow: **-0,098**

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

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

dimethyl ether

 Partition coefficient: n-octanol/water : log Pow: **0,10**

2-Methoxy-1-methylethyl acetate

 Partition coefficient: n-octanol/water : Pow: **1,2**
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..

Components:

dimethyl ether

 Assessment : **This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..**
12.6 Other adverse effects
Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

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


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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
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

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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

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.

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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 - 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 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

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
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


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AICS	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TCSI	Not in compliance with the inventory
TSCA	On TSCA Inventory

Inventories

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

15.2 Chemical safety assessment

No data available


SECTION 16: Other information
Further information

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Full text of H-Statements

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
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.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Other information : The information accumulated herein is believed to be accurate


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

Sources of key data used to compile the Safety Data Sheet
Valvoline internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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

ACGIH : American Conference of Industrial Hygienists
BEI : Biological Exposure Index
CAS : Chemical Abstracts Service (Division of the American Chemical Society).
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
FG : Food grade
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
H-statement : Hazard Statement
IATA : International Air Transport Association.
IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO : International Civil Aviation Organization
ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"
IMDG : International Maritime Code for Dangerous Goods
ISO : International Organization for Standardization
logPow : octanol-water partition coefficient
LCxx : Lethal Concentration, for xx percent of test population
LDxx : Lethal Dose, for xx percent of test population.
ICxx : Inhibitory Concentration for xx of a substance
Ecxx : Effective Concentration of xx
N.O.S.: Not Otherwise Specified
OECD : Organization for Economic Co-operation and Development
OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic
PPE : Personal Protective Equipment
STEL : Short-term exposure limit
STOT : Specific Target Organ Toxicity
TLV : Threshold Limit Value
TWA : Time-weighted average
vPvB : Very Persistent and Very Bioaccumulative

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WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands

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

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

CLP : Classification, Labelling and Packaging

CSA : Chemical Safety Assessment

CSR : Chemical Safety Report

DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

R-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