

Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_HU

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

1.1 Product identifier

Trade name : No data available

Product code : 887054

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

Recommended use : Sealant

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

+1-800-VALVOLINE (+1-800-825-8654), or contact your local emergency telephone number at

+36 80 201 199

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 H229: Pressurised container: May burst if heated.

H222: Extremely flammable aerosol.

Skin irritation, Category 2 H315: Causes skin irritation.

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

system

H336: May cause drowsiness or dizziness.

Long-term (chronic) aquatic hazard,

Category 2

H411: Toxic to aquatic life with long lasting effects.



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

2.2 Label elements

UFI : MRV1-1KVF-DT4F-U1X2

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :







Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

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.

P260 Do not breathe spray.

Storage:

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, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane

Pentane

butanone

2-Methylbutane

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



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

No information available.

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 (%)	
Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane	921-024-6 01-2119475514-35-xxxx	Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 40,00 - < 50,00	
Propane	74-98-6 200-827-9 01-2119486944-21-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 5,00 - < 10,00	
Isobutane	75-28-5 200-857-2 01-2119485395-27-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 5,00 - < 10,00	
Pentane	109-66-0 203-692-4 01-2119459286-30-xxxx	Flam. Liq.1; H224 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 5,00 - < 10,00	
butanone	78-93-3 201-159-0 01-2119457290-43-xxxx	Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336	>= 2,50 - < 5,00	
2-Methylbutane	78-78-4 201-142-8	Flam. Liq.1; H224 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 1,00 - < 2,50	
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	>= 15,00 - < 25,00	
Butane	106-97-8	Flam. Gas1; H220	>= 5,00 - < 10,00	



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

	203-448-7 01-2119474691-32-xxxx	Press. GasLiquefied gas; H280	
--	------------------------------------	-------------------------------	--

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 : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

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.

Causes skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray

Foam

Alcohol-resistant foam Carbon dioxide (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

5.3 Advice for firefighters

for firefighters

Special protective equipment : 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



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

Remove all sources of ignition. Use personal protective equipment.

Ensure adequate ventilation.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Comply with all applicable federal, state, and local regulations.

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.

Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

: Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition. Use

only explosion-proof equipment.

Wash hands before breaks and at the end of workday. When Hygiene measures



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

using do not eat or drink. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: 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
Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane		CEIL (Mist)	5 mg/m3 Mist	HU OEL
		CEIL (Mist)	5 mg/m3 Mist	HU OEL
dimethyl ether	115-10-6	TWA	1.000 ppm 1.920 mg/m3	2000/39/EC
		TWA	1.920 mg/m3	HU OEL
		STEL	15.360 mg/m3	HU OEL
Butane	106-97-8	TWA	2.350 mg/m3	HU OEL
		STEL	9.400 mg/m3	HU OEL
Pentane	109-66-0	TWA	1.000 ppm 3.000 mg/m3	2006/15/EC
		TWA	2.950 mg/m3	HU OEL



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

		STEL	23.600 mg/m3	HU OEL
butanone	78-93-3	TWA	200 ppm 600 mg/m3	2000/39/EC
		STEL	300 ppm 900 mg/m3	2000/39/EC
		TWA	600 mg/m3	HU OEL
		STEL	900 mg/m3	HU OEL
2-Methylbutane	78-78-4	TWA	1.000 ppm 3.000 mg/m3	2006/15/EC
		TWA	3.000 mg/m3	HU OEL
		STEL	24.000 mg/m3	HU OEL

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

dimethyl ether : End Use: Workers

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:

dimethyl ether : 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.



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

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 : 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

Salety shoes

Flame-resistant clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or signs of wear.

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.

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : aerosol

Colour : white, translucent

Odour : solvent-like

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling : Not applicable



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

range

Flash point Not applicable

No data available Evaporation rate

Flammability (solid, gas) No data available

Upper explosion limit / Upper :

flammability limit

26,2 %(V)

Lower explosion limit / Lower : 0.6 %(V)

flammability limit

Vapour pressure : 8 hPa (20 °C)

Relative vapour density No data available

Relative density No data available

0,68 g/cm3 (20 °C) Density

Solubility(ies)

: immiscible Water solubility

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

: > 200 °C Ignition temperature

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 : not auto-flammable

SECTION 10: Stability and reactivity



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

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 : None known.

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : None known.

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 : Inhalation

exposure

: Inhalation Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:

Acute oral toxicity : LD50 (Rat): > 5.840 mg/kg

Remarks: Information given is based on data obtained from

similar substances.

Acute inhalation toxicity : LC50 (Rat): > 25,2 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

Acute dermal toxicity : LD50 (Rat): > 2.800 - 3.100 mg/kg

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

Remarks: Information given is based on data obtained from

similar substances.

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:

ISOBUTANE:

Acute inhalation toxicity : LC50 (Mouse, male): 520400 ppm

Exposure time: 2 h
Test atmosphere: gas

Components:

PENTANE NORMAL:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Assessment: Not classified as acutely toxic by ingestion under

GHS

Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Assessment: No adverse effect has been observed in acute

inhalation toxicity tests.

Components:

METHYL ETHYL KETONE:

Acute oral toxicity : LD50 (Rat): 2.300 - 3.500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

Components:

ISOPENTANE:



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

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

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Mouse): 450 mg/l

Exposure time: 2 h

LC50 (Mouse): 140.000 mg/l

Exposure time: 2 h

LC50 (Mouse): 1.000 mg/l

Exposure time: 1 h

LC50 (Rat): > 25,3 mg/l Exposure time: 4 h Test atmosphere: vapour

Remarks: No mortality observed at this dose.

Information given is based on data obtained from similar

substances.

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:

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

Skin corrosion/irritation

Causes skin irritation.

Product:



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

Remarks: May cause skin irritation and/or dermatitis.

Components:

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:

Result: Irritating to skin.

ISOBUTANE:

Result: No skin irritation

PENTANE NORMAL:

Result: Slight, transient irritation

Result: Repeated exposure may cause skin dryness or cracking.

METHYL ETHYL KETONE:

Result: No skin irritation

ISOPENTANE:

Species: Rabbit

Result: Slight, transient irritation

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

Serious eye damage/eye irritation

Not classified based on available information.

Product:

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

Components:

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:

Result: Slight, transient irritation

ISOBUTANE:

Result: No eye irritation

PENTANE NORMAL:

Result: Slight, transient irritation

METHYL ETHYL KETONE:

Result: Irritating to eyes.

ISOPENTANE:

Species: Rabbit

Result: Slight, transient irritation



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

ISOPENTANE:

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

DIMETHYL ETHER:

Remarks: Not applicable

Germ cell mutagenicity

Not classified based on available information.

Components:

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:

Germ cell mutagenicity- : Classified based on benzene content < 0.1% (Regulation (EC)

Assessment 1272/2008, Annex VI, Part 3, Note P)

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.

ISOBUTANE:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Test species: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

: Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Genotoxicity in vivo : Test Type: in vivo assay

Test species: Drosophila melanogaster (vinegar fly)

Result: negative

Remarks: Information given is based on data obtained from

similar substances.



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

Test Type: In vivo micronucleus test

Test species: Rat

Method: OECD Test Guideline 474

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

ISOPENTANE:

Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

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

BUTANE NORMAL:

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, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:

Carcinogenicity - : Classified based on benzene content < 0.1% (Regulation (EC)

Assessment 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



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

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, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:

Assessment: May cause drowsiness or dizziness.

PENTANE NORMAL:

Assessment: May cause drowsiness or dizziness.

METHYL ETHYL KETONE:

Assessment: May cause drowsiness or dizziness.

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

Aspiration toxicity

Not classified based on available information.

Components:

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane:

May be fatal if swallowed and enters airways.



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

PENTANE NORMAL:

May be fatal if swallowed and enters airways.

METHYL ETHYL KETONE:

May be harmful if swallowed and enters airways.

ISOPENTANE:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

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:

METHYL ETHYL KETONE:

Remarks: Central nervous system

SECTION 12: Ecological information

12.1 Toxicity

Components:

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 11,4 mg/l

> Exposure time: 96 h Test Type: semi-static test Test substance: WAF

Method: OECD Test Guideline 203

Toxicity to daphnia and other

: EL50 (Daphnia hyalina (water flea)): 3 mg/l aquatic invertebrates 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



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

Exposure time: 72 h

Test Type: static test Test substance: WAF

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

Pentane

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,26 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l

Exposure time: 48 h

: ErC50 (Pseudokirchneriella subcapitata (green algae)): 10,7 Toxicity to algae

mg/l

Exposure time: 72 h

butanone

: LC50 (Pimephales promelas (fathead minnow)): 3.130 - 3.320 Toxicity to fish

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 4.025 - 6.440 mg/l

Exposure time: 48 h Test Type: static test **Remarks: Intoxication**

2-Methylbutane

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,26 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): Calculated 2,3 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water algae)): 10,7

End point: Growth inhibition

Exposure time: 72 h



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

Test Type: static test

Remarks: Information given is based on data obtained from

similar substances.

NOEC: 7,51 mg/l

End point: Growth inhibition Exposure time: 72 h

Test Type: static test

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to fish (Chronic

toxicity)

NOELR: Calculated 7,6 mg/l

Exposure time: 28 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other

aquatic invertebrates

(Chronic toxicity)

NOELR: Calculated 13,29 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water flea)

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

Butane

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

QSAR

Toxicity to daphnia and other

aquatic invertebrates

Q0/111

: EC50 (Daphnia magna (Water flea)): Expected > 10 - < 100

Exposure time: 48 h Remarks: QSAR

Toxicity to algae : EC50 (green algae): Expected 7,7 mg/l

Exposure time: 96 h Remarks: QSAR



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

Ш

12.2 Persistence and degradability

Components:

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclenes, <5% nhexane

Biodegradability : Inoculum: activated sludge

Biodegradation: 98 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Pentane

Biodegradability : Result: Readily biodegradable.

Biodegradation: 87 % Exposure time: 28 d

Method: OECD Test Guideline 301F

2-Methylbutane

Biodegradability : Result: Readily biodegradable.

Biodegradation: 71 % 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.

Butane

Biodegradability : Result: Readily biodegradable.

Remarks: Information given is based on data obtained from

similar substances.

12.3 Bioaccumulative potential

Components:

Propane

Partition coefficient: n- : log Pow: 2,36

octanol/water

Isobutane

Partition coefficient: n- : log Pow: 2,76

octanol/water



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

Pentane

Partition coefficient: n-

octanol/water

butanone

Partition coefficient: n-

octanol/water

: log Pow: 0,29

: log Pow: 3,39

dimethyl ether

Partition coefficient: n-

octanol/water

: log Pow: 0,10

Butane

Partition coefficient: n-

octanol/water

: log Pow: 2,89

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

: This substance/mixture contains no components considered Assessment

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., Toxic 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

Valvoline,

SAFETY DATA SHEET

Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

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
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

Valvoline,

SAFETY DATA SHEET

Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

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 : 203

aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

IATA (Passenger)

Packing instruction : 203

(passenger aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

rid

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

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

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) Conditions of restriction for the following entries should be considered:

ISOBUTANE (Number on list 29, 28)

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



Version: 2.0	Revision Date: 09.06.2020		Print Date: 25/10/2022	
P3a	FLAMMABLE AEROSOLS	150 t	500 t	
E2	ENVIRONMENTAL 2 HAZARDS	200 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.

44/2000. (XII 27) Ministry of health dangerous substances and preparations dangerous for certain procedures and arrangements for activities 2000 XXV. Law on chemical safety

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

DSL : This product contains one or several components that are not

on the Canadian DSL and have annual quantity limits.

AICS : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : Not On TSCA Inventory

Inventories



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

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: 000000274799

Full text of H-Statements

H220	Extremely flammable gas.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

H411 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



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022

BEI: Biological Exposure Index

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

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

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

H-statement : Hazard Statement

IATA: International Air Transport Association.

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

ICAO: International Civil Aviation Organization

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

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

ABM: Water Hazard Class for the Netherlands

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

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

CLP: Classification, Labelling and Packaging

CSA: Chemical Safety Assessment CSR: Chemical Safety Report DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances

PEC : Predicted Effect Concentration
PEL : Permissible Exposure Limits
PNEC : Predicted No Effect Concentration

R-phrase: Risk phrase

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

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

S-phrase: Safety phrase

WGK: German Water Hazard Class



Version: 2.0 Revision Date: 09.06.2020 Print Date: 25/10/2022