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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 : Valvoline™ ZINC SPRAY

Product code : 887062

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

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

SDS@valvoline.com

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.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Long-term (chronic) aquatic hazard,

Category 1

H410: Very toxic to aquatic life with long lasting

effects.

2.2 Label elements

UFI : REGR-WKMV-ET4H-ET69

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Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal word : Danger

Hazard statements : H410 Very toxic to aquatic life with long lasting

effects.

H319 Causes serious eye irritation.

H229 Pressurised container: May burst if heated.

H222 Extremely flammable aerosol.

Precautionary statements : P102 Keep out of reach of children.

P101 If medical advice is needed, have product

container or label at hand.

Prevention:

P251 Do not pierce or burn, even after use.
P211 Do not spray on an open flame or other

ignition source.

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

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.

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

3.2 Mixtures

Hazardous components





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	T040 N	101 '6' '	0 1 11 (61)
Chemical name	CAS-No.	Classification	Concentration (%)
	EC-No.	(REGULATION (EC)	
	Registration number	No 1272/2008)	
zinc	7440-66-6	Aquatic Acute1;	>= 40,00 - < 50,00
	231-175-3	H400	
	01-2119467174-37-xxxx	Aquatic Chronic1;	
		H410	
Hydrocarbons, C9,	64742-95-6	Flam. Liq.3; H226	>= 5,00 - < 10,00
aromatics	918-668-5	STOT SE3; H336	
		STOT SE3; H335	
		Asp. Tox.1; H304	
		Aquatic Chronic2;	
		H411	
acetone	67-64-1	Flam. Liq.2; H225	>= 5,00 - < 10,00
	200-662-2	Eye Irrit.2; H319	
	01-2119471330-49-xxxx	STOT SE3; H336	
Xylene	1330-20-7	Flam. Liq.3; H226	>= 2,50 - < 5,00
	215-535-7	Acute Tox.4; H332	
	01-2119488216-32-xxxx	Acute Tox.4; H312	
		Skin Irrit.2; H315	
		Eye Irrit.2, H319	
		STOT SE3, H335	
		STOT RE2, H373	
		Asp. Tox.1; H304	
Zinc oxide	1314-13-2	Aquatic Acute1;	>= 1,00 - < 2,50
	215-222-5	H400	
	01-2119463881-32-xxxx	Aquatic Chronic1;	
		H410	
Substances with a work	place exposure limit :		
dimethyl ether	115-10-6	Flam. Gas1; H220	>= 40,00 - < 50,00
	204-065-8	Press. GasLiquefied	
	01-2119472128-37-0005	gas; H280	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Do not leave the victim unattended.

Show this safety data sheet to the doctor in attendance. Call a POISON CENTRE or doctor/physician if exposed or

you feel unwell.

Move out of dangerous area.

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If inhaled : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

Move to fresh air.

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 : Protect unharmed eye.

Remove contact lenses.

Immediately flush eye(s) with plenty of water.

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 : Causes serious eye irritation.

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

Foam

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

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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

: No hazardous combustion products are known

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

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

: Prevent product from entering drains. **Environmental precautions**

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.



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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

: Dispose of rinse water in accordance with local and national

regulations.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Avoid contact with skin and eyes.

Avoid exposure - obtain special instructions before use. Take precautionary measures against static discharges.

Container hazardous when empty.

Do not smoke.

Do not breathe vapours/dust.

Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure.

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. When

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

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: 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

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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/m3	2000/39/EC
		TWA	400 ppm 766 mg/m3	GB EH40
		STEL	500 ppm 958 mg/m3	GB EH40
acetone	67-64-1	TWA	500 ppm 1.210 mg/m3	2000/39/EC
		TWA	500 ppm 1.210 mg/m3	GB EH40
		STEL	1.500 ppm 3.620 mg/m3	GB EH40
Xylene	1330-20-7	TWA	50 ppm 221 mg/m3	2000/39/EC
		STEL	100 ppm 442 mg/m3	2000/39/EC
		TWA	50 ppm 220 mg/m3	GB EH40
		STEL	100 ppm 441 mg/m3	GB EH40

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
XYLENE		methyl hippuric acid: 650 Millimoles per mole Creatinine (Urine)	After shift	GB EH40 BAT

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



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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.

Personal protective equipment

Eye protection : Wear chemical splash goggles when there is the potential for

exposure of the eyes to liquid, vapor or mist.

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

Flame-resistant clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : 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)

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

approved filter.

In the case of vapour formation use a respirator with an

approved filter.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance aerosol

Colour grey

Odour solvent-like

Odour Threshold No data available

рΗ No data available

Melting point/freezing point No data available

Initial boiling point and boiling :

range

Not applicable

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 : 3,3 %(V)

flammability limit

: 4 hPa (20 °C) Vapour pressure

Relative vapour density No data available

Relative density No data available

1,1 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

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Ignition temperature : 240 °C

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

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 : Acids

alkalis

aluminium hydride

Amines Ammonia

Carbon monoxide chlorinated rubber

halogens lithium

lithium aluminum hydride

magnesium



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peroxides

Reducing agents Strong oxidizing agents

water

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.

Product:

Acute inhalation toxicity : Acute toxicity estimate : > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg

Method: Calculation method

Components:

Hydrocarbons, C9, aromatics:

Acute oral toxicity : LD50 (Rat, female): 3.492 mg/kg

LD50 (Rat, male): 6.984 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 6.193 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 3.160 mg/kg

Components:

ACETONE:

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Acute oral toxicity : LD50 (Rat, female): 5.800 mg/kg

Acute inhalation toxicity : LC50 (Rat, female): 76 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 7.426 mg/kg

Components:

XYLENE:

Acute oral toxicity : LD50 (Rat): 3.523 - 8.600 mg/kg

Acute inhalation toxicity : LC50 (Rat): 29 mg/l, 6700 ppm

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 1.700 mg/kg

Components:

ZINC OXIDE:

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

Acute inhalation toxicity : LC50 (Rat): > 5,7 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: No adverse effect has been observed in acute

inhalation toxicity tests.

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

Method: OECD Test Guideline 402

Assessment: No adverse effect has been observed in acute

dermal toxicity tests.

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



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Test atmosphere: gas

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation in susceptible persons.

Components:

Hydrocarbons, C9, aromatics:

Species: Rabbit

Method: OECD Test Guideline 404 Result: Slight, transient irritation

ACETONE:

Result: Slight, transient irritation

Result: Repeated exposure may cause skin dryness or cracking.

XYLENE:

Result: Irritating to skin.

ZINC OXIDE:

Result: Slight, transient irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

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

Components:

Hydrocarbons, C9, aromatics:

Species: Rabbit

Method: OECD Test Guideline 405 Result: Slight, transient irritation

ACETONE:

Result: Irritating to eyes.

XYLENE:

Result: Irritating to eyes.

ZINC OXIDE:

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Method: OECD Test Guideline 405 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:

Hydrocarbons, C9, aromatics:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

ZINC OXIDE:

Test Type: Maximisation Test

Species: Guinea pig

Method: OECD Test Guideline 406

DIMETHYL ETHER:

Remarks: Not applicable

Germ cell mutagenicity

Not classified based on available information.

Components:

Hydrocarbons, C9, aromatics:

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

Result: negative

Germ cell mutagenicity-

Assessment

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

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

ZINC OXIDE:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test Type: Micronucleus test

Test species: Mouse

Method: OECD Test Guideline 474

Result: negative

DIMETHYL ETHER:

Genotoxicity in vitro : Test Type: Ames test

Result: negative

: Test Type: Chromosome aberration test in vitro

Result: negative

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: 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

Carcinogenicity

Not classified based on available information.

Components:

Hydrocarbons, C9, aromatics:

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

Result: negative

Reproductive toxicity

Not classified based on available information.

Components:

ZINC OXIDE:

Effects on foetal : Species: Rat

development Application Route: inhalation (dust/mist/fume)

Symptoms: No specific developmental abnormalities

Method: OECD Test Guideline 414

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



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STOT - single exposure

Not classified based on available information.

Components:

Hydrocarbons, C9, aromatics:

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

ACETONE:

Exposure routes: Inhalation
Target Organs: Nervous system

Assessment: May cause drowsiness or dizziness.

XYLENE:

Assessment: May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Components:

XYLENE:

Target Organs: Central nervous system, Liver, Kidney

Assessment: May cause damage to organs through prolonged or repeated exposure.

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, C9, aromatics:

May be fatal if swallowed and enters airways.

ACETONE:

May be harmful if swallowed and enters airways.

XYLENE:

May be fatal if swallowed and enters airways.

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Further information

Product:

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

SECTION 12: Ecological information

12.1 Toxicity

Components:

zinc

M-Factor (Short-term (acute)

aquatic hazard)

M-Factor (Long-term

(chronic) aquatic hazard)

Ecotoxicology Assessment

Short-term (acute) aquatic

hazard

Very toxic to aquatic life.

: 1

Long-term (chronic) aquatic

hazard

: Very toxic to aquatic life with long lasting effects.

Hydrocarbons, C9, aromatics

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 9,2 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

: LL50 (Daphnia magna (Water flea)): 3,2 mg/l

Exposure time: 48 h
Test Type: static test
Test substance: WAF

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 2,9

mg/l

End point: Growth inhibition

Exposure time: 72 h
Test Type: static test
Test substance: WAF

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Method: OECD Test Guideline 201

NOEL (Pseudokirchneriella subcapitata (green algae)): 1 mg/l

End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 201

acetone

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.740 - 6.330

ma/l

Exposure time: 96 h
Test Type: static test

LC50 (Pimephales promelas (fathead minnow)): 8.733 - 9.482

mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to algae : NOEC (Microcystis aeruginosa (blue-green algae)): 530 mg/l

Exposure time: 8 d Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

(Chronic toxicity)

NOEC: 2.112 mg/l

Exposure time: 28 d

Species: Daphnia magna (Water flea)

Test Type: flow-through test

Xylene

Toxicity to daphnia and other

aquatic invertebrates

: LC50 (Daphnia magna (Water flea)): > 100 - < 1.000 mg/l

Exposure time: 24 h
Test Type: static test

Zinc oxide

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1,793 mg/l

Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 2,6 mg/l

Exposure time: 48 h
Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,136

mg/l

Exposure time: 72 h
Test Type: static test



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Method: OECD Test Guideline 201

M-Factor (Short-term (acute)

aquatic hazard)

Toxicity to fish (Chronic

toxicity)

NOEC 0,026 mg/l Exposure time: 30 d

End point: Growth rate

Species: Jordanella floridae (flagfish)

Test Type: flow-through test

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other

aquatic invertebrates

(Chronic toxicity)

NOEC: 0,297 mg/l

Exposure time: 10 d

End point: Reproduction Test Species: Aquatic invertebrates

Remarks: Information given is based on data obtained from

similar substances.

M-Factor (Long-term

(chronic) aquatic hazard)

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

Acute aquatic toxicity Category 1

Long-term (chronic) aquatic

hazard

Chronic aquatic toxicity Category 1

dimethyl ether

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 4,1 g/l

: 1

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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12.2 Persistence and degradability

Components:

zinc

Biodegradability : Result: The methods for determining biodegradability are not

applicable to inorganic substances.

acetone

Biodegradability : Result: Readily biodegradable.

Biodegradation: 90,9 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Xylene

Biodegradability : Result: Readily biodegradable.

Physico-chemical : Remarks: The product evaporates readily.

removability

Zinc oxide

Biodegradability : Result: The methods for determining biodegradability are not

applicable to inorganic substances.

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.

12.3 Bioaccumulative potential

Components:

acetone

Partition coefficient: n- : log Pow: -0,24

octanol/water

Xvlene

Partition coefficient: n- : log

octanol/water

: log Pow: 3,16

Zinc oxide

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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dimethyl ether

Partition coefficient: n- : log F

octanol/water

: log Pow: 0,10

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., Very 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

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Empty containers should be taken to an approved waste

handling site for recycling or disposal.

Do not re-use empty containers.

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



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SECTION 14: Transport information

14.1 UN number

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

14.2 UN proper shipping name

ADN : AEROSOLS
ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS

(,)

IATA : AEROSOLS

14.3 Transport hazard class(es)

 ADN
 : 2

 ADR
 : 2

 RID
 : 2

 IMDG
 : 2.1

 IATA
 : 2.1

14.4 Packing group

ADN

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1

ADR

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1 Tunnel restriction code : (D)

RID

Packing group : Not assigned by regulation

Classification Code : 5F Hazard Identification Number : 23

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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

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.





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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1005/2009 on substances that

deplete the ozone layer

: Not applicable

Regulation (EC) No 850/2004 on persistent organic

pollutants

: Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) No 649/2012 of the European

Parliament and the Council concerning the export and

import of dangerous chemicals

Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

: Not applicable

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

E1 ENVIRONMENTAL 100 t 200 t

HAZARDS

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 : This product contains one or several components that are not

on the Canadian DSL and have annual quantity limits.



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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

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: 000000274826

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.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.



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H319 H332 H335	Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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

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



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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