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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™ EGR AND TURBO CLEANER CLEANER

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

Use of the substance/mixture : lubricant


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 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.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.

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Chronic aquatic toxicity, Category 3

H412: Harmful to aquatic life with long lasting effects.

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.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful 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.
P103 Read label before use.
Prevention:
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing spray.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Storage:
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

		
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P403 + P233

Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501

Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Xylene

2.3 Other hazards**Additional advice**


No information available.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Chemical nature : Static Accumulator

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Xylene	1330-20-7 215-535-7 01-2119488216-32-xxxx	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H336 STOT SE3; H335 Asp. Tox.1; H304	>= 25,00 - < 40,00
Butanone	78-93-3 201-159-0	Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336	>= 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	>= 15,00 - < 20,00
Propane	74-98-6 200-827-9 01-2119486944-21-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 10,00 - < 15,00
propan-2-ol	67-63-0 200-661-7 01-2119457558-25-xxxx	Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336	>= 10,00 - < 15,00

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2-butoxyethanol	111-76-2 203-905-0 01-2119475108-36-xxxx	Acute Tox.4; H302 Acute Tox.4; H312 Acute Tox.4; H332 Eye Irrit.2; H319 Skin Irrit.2; H315	>= 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.
Keep patient warm and at rest.
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 : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
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 : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
redness of the skin
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
effects on memory
Shortness of breath
confusion

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irregular heartbeat
 Bloody urine
 lung edema (fluid buildup in the lung tissue)
 Difficulty in breathing

Risks : Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.
 Administration of high doses of isopropanol in combination with known hepatotoxic chemicals resulted in enhanced liver toxicity in experimental animals.
 Causes skin irritation.
 Causes serious eye irritation.
 Harmful if inhaled.
 May cause respiratory irritation.
 May cause drowsiness or dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures


5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 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.

	
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Hazardous combustion products : carbon dioxide and carbon monoxide
Hydrocarbons
Aldehydes
Ketones
Organic acids

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.
Remove all sources of ignition.
Use personal protective equipment.
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.
Suppress (knock down) gases/vapours/mists with a water spray jet.


6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

6.4 Reference to other sections

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

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SECTION 7: Handling and storage

7.1 Precautions for safe handling


- Advice on safe handling : Open drum carefully as content may be under pressure. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Container hazardous when empty. Take precautionary measures against static discharges. Avoid exposure - obtain special instructions before use. 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. Container may be opened only under exhaust ventilation hood.
- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). No sparking tools should be used. 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. Electrical installations / working materials must comply with the technological safety standards.
- 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
Xylene	1330-20-7	TWA	50 ppm 220 mg/m ³	EH40 WEL
		STEL	100 ppm 441 mg/m ³	EH40 WEL
Butanone	78-93-3	TWA	200 ppm 600 mg/m ³	EH40 WEL
		STEL	300 ppm 899 mg/m ³	EH40 WEL
propan-2-ol	67-63-0	TWA	400 ppm 999 mg/m ³	EH40 WEL
		STEL	500 ppm 1.250 mg/m ³	EH40 WEL
2-butoxyethanol	111-76-2	TWA	25 ppm 123 mg/m ³	EH40 WEL
		STEL	50 ppm 246 mg/m ³	EH40 WEL

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
XYLENE	1330-20-7	methyl hippuric acid: 650 mmol/mol creatinine (Urine)	After shift	GB EH40 BAT
METHYL ETHYL KETONE	78-93-3	butan-2-one: 70 micromol per litre (Urine)	After shift	GB EH40 BAT
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	butoxyacetic acid: 240 mmol/mol creatinine (Urine)	After shift	GB EH40 BAT


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.

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Hand protection

Remarks : butyl-rubber Neoprene gloves 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.
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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : aerosol

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : -44 °C

Flash point : -97 °C


Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : 12 %(V)

Lower explosion limit : 0,7 %(V)

Vapour pressure : 8.300 hPa (20 °C)

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Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0,745 g/cm3 (20 °C)
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	200 °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

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.

Do not allow evaporation to dryness.

10.5 Incompatible materials

Materials to avoid : Acids
Aldehydes

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aluminum
 Amines
 Ammonia
 Bases
 chlorates
 Chlorine
 Copper
 Copper alloys
 Ethylene oxide
 halogenated hydrocarbons
 halogens
 isocyanates
 salts of strong bases
 strong alkalis
 Strong oxidizing agents
 Do not use with aluminum equipment at temperatures above
 49C or 120 degrees F.

10.6 Hazardous decomposition products

Hazardous decomposition products : Aldehydes
 carbon dioxide and carbon monoxide
 Hydrocarbons
 Organic acids
 ketones

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
 Skin contact
 Eye Contact
 Ingestion

Acute toxicity
 Harmful if inhaled.

Components:


Xylene

Acute oral toxicity : LD 50 (Rat): 3.523 - 8.600 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 6700 ppm
 Exposure time: 4 h
 Test atmosphere: vapour

Assessment: The component/mixture is classified as acute
 inhalation toxicity, category 4.

Acute dermal toxicity : LD 50 (Rabbit): 1.700 mg/kg

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Components:

Butanone

Acute oral toxicity : LD 50 (Rat): 2.300 - 3.500 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): > 5 g/kg

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:

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:

propan-2-ol

Acute oral toxicity : LD 50 (Rat): 5,84 g/kg

Acute inhalation toxicity : LC 50 (Rat): 16000 ppm
 Exposure time: 4 h
 Test atmosphere: vapour

Acute dermal toxicity : LD 50 (Rabbit): 12.800 mg/kg


Components:

2-butoxyethanol

Acute oral toxicity : LD 50 (Guinea pig): 1.200 mg/kg

Acute inhalation toxicity : LC 50 (Guinea pig): > 633 ppm
 Exposure time: 1 h
 Test atmosphere: dust/mist
 Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.

Acute dermal toxicity : LD 50 (Rabbit): 400 - 500 mg/kg

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LD 50 (Guinea pig): > 2.000 mg/kg

Assessment: The component/mixture is classified as acute dermal toxicity, category 4.

Skin corrosion/irritation

Causes skin irritation.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Remarks: May cause skin irritation and/or dermatitis.

Components:

Xylene

Result: Irritating to skin.

Butanone

Result: No skin irritation

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

Species: Rabbit

Method: OECD Test Guideline 404

Result: Slightly irritating to skin

propan-2-ol

Result: Slightly irritating to skin

2-butoxyethanol

Species: Rabbit

Result: Irritating to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

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

Components:

Xylene

Result: Irritating to eyes.

Butanone

Result: Irritating to eyes.


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

Species: Rabbit

Result: Slightly irritating to eyes

propan-2-ol

Result: Irritating to eyes.

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2-butoxyethanol
Species: Rabbit
Result: Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Components:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
Test Type: Maximisation Test
Species: Guinea pig
Method: OECD Test Guideline 406

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

Germ cell mutagenicity

Not classified based on available information.

Components:


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

: 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

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.

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

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Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

Components:

Xylene

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

Butanone

Assessment: May cause drowsiness or dizziness.

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

Assessment: May cause drowsiness or dizziness.

propan-2-ol

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Components:

Xylene

May be fatal if swallowed and enters airways.

Butanone

May be harmful 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.


Components:

Butanone

Remarks: Central nervous system

propan-2-ol

Remarks: Central nervous system

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SECTION 12: Ecological information

12.1 Toxicity

Components:

Xylene

Toxicity to fish : LC 50 (Fathead minnow (*Pimephales promelas*)): 23,53 - 29,97 mg/l
 Exposure time: 96 h
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (*Daphnia magna*)): > 100 - < 1.000 mg/l
 Exposure time: 24 h
 Test Type: static test

Butanone

Toxicity to fish : LC 50 (Fathead minnow (*Pimephales promelas*)): 3.130 - 3.320 mg/l
 Exposure time: 96 h
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (*Daphnia magna*)): 4.025 - 6.440 mg/l
 Exposure time: 48 h
 Test Type: static test
 Remarks: Intoxication


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

Toxicity to fish : LL50 (*Oncorhynchus mykiss* (rainbow trout)): 3 - 10 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 (Water flea (*Daphnia magna*)): 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 : NOEC: 0,17 mg/l
 Exposure time: 21 d

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(Chronic toxicity) Species: Water flea (*Daphnia magna*)
 Test Type: static test
 Test substance: WAF
 Method: OECD Test Guideline 211

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

propan-2-ol
 Toxicity to fish : LC 50 (Fathead minnow (*Pimephales promelas*)): 5.770 - 7.450 mg/l
 Exposure time: 96 h
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (*Daphnia magna*)): > 10.000 mg/l
 Exposure time: 24 h
 Test Type: static test

2-butoxyethanol
 Toxicity to fish : LC 50 (*Oncorhynchus mykiss* (rainbow trout)): 1.474 mg/l
 Exposure time: 96 h
 Test Type: static test
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (*Daphnia magna*)): 1.550 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: OECD Test Guideline 202

Toxicity to algae : EC 50 (*Pseudokirchneriella subcapitata* (green algae)): 911 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201


Toxicity to fish (Chronic toxicity) : NOEC: > 100 mg/l
 Exposure time: 21 d
 Species: *Danio rerio* (zebra fish)
 Test Type: semi-static test
 Method: OECD Test Guideline 204

12.2 Persistence and degradability

Components:

Xylene
 Physico-chemical removability : Remarks: The product evaporates readily.

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

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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.

2-butoxyethanol
 Biodegradability : Result: Readily biodegradable
 Biodegradation: 90,4 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Components:

Xylene
 Partition coefficient: n-octanol/water : log Pow: 3,16

Butanone
 Partition coefficient: n-octanol/water : log Pow: 0,29

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

propan-2-ol
 Partition coefficient: n-octanol/water : log Pow: 0,05

2-butoxyethanol
 Partition coefficient: n-octanol/water : log Pow: 0,83

12.4 Mobility in soil

No data available


12.5 Results of PBT and vPvB assessment

Not relevant

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.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

SECTION 14: Transport information

14.1 UN number

ADR:
INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: UN1950
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: UN1950
INTERNATIONAL MARITIME DANGEROUS GOODS: UN1950
RID:

14.2 UN proper shipping name


ADR:
INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Aerosols, flammable
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Aerosols, flammable
INTERNATIONAL MARITIME DANGEROUS GOODS: AEROSOLS
RID:

14.3 Transport hazard class(es)

ADR:
INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: 2.1
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: 2.1
INTERNATIONAL MARITIME DANGEROUS GOODS: 2.1
RID:

14.4 Packing group

ADR:

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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:
INTERNATIONAL MARITIME DANGEROUS GOODS:
RID:

14.5 Environmental hazards

ADR: Not applicable
INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable
INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not applicable
RID: Not applicable
: Not applicable
\

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable
Hazard code(s): Not applicable
Pollutant Category: Not applicable

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 57) : 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) : Butanone
propan-2-ol
Propane

Regulation (EC) No 850/2004 on persistent organic pollutants : 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.

P3a	FLAMMABLE AEROSOLS	Quantity 1 150 t	Quantity 2 500 t
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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.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory 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


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.

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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