


**SAFETY DATA SHEET**

Revision Date: 16.12.2016

Print Date: 26.01.2018

SDS Number: 000000078927

Version: 1.4

Valvoline™ CARBURETTOR CLNR. CARB &amp; CHOKE CLEANER

VE54100

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™ CARBURETTOR CLNR.  
CARB & CHOKE CLEANER

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

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

SDS@valvoline.com

**1.4 Emergency telephone number**

00-800-825-8654 / 001-859-202-3865, or contact  
your local emergency telephone number at 112

**Product Information**

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

**SECTION 2: Hazards identification**
**2.1 Classification of the substance or mixture**
**Classification (REGULATION (EC) No 1272/2008)**

Aerosols, Category 1

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

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.

	
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Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

Chronic aquatic toxicity, Category 2

H411: Toxic 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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements :

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
<b>Prevention:</b>	
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.
<b>Response:</b>	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Storage:**


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P410 + P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

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:

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

4-Hydroxy-4-methylpentan-2-one

**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 (%)
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	01-2119473851-33-xxxx	Flam. Liq.2; H225 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	>= 25,00 - < 40,00
4-Hydroxy-4- methylpentan-2-one	123-42-2 204-626-7 01-2119473975-21-xxxx	Flam. Liq.3; H226 Eye Irrit.2; H319 STOT SE3; H335	>= 25,00 - < 40,00
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 STOT SE3; H336 STOT SE3; H335 Asp. Tox.1; H304 Aquatic Chronic3; H412	>= 10,00 - < 12,50
Propane	74-98-6 200-827-9 01-2119486944-21-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 10,00 - < 15,00


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Substances with a workplace exposure limit :			
Butane	106-97-8 203-448-7 01-2119474691-32-xxxx	Flam. Gas1; H220 Press. GasH281	>= 15,00 - < 25,00

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 : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.
- 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 : 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  
irregular heartbeat


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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.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

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.

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**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 (CO<sub>2</sub>)

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

Acetone

acid smoke and fumes

Hydrocarbons

Aldehydes

**5.3 Advice for firefighters**

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


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for firefighters

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.

**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.


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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
4-Hydroxy-4-methylpentan-2-one	123-42-2	TWA	50 ppm 241 mg/m3	GB EH40


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		STEL	75 ppm 362 mg/m <sup>3</sup>	GB EH40
Butane	106-97-8	STEL	750 ppm 1.810 mg/m <sup>3</sup>	GB EH40
		TWA	600 ppm 1.450 mg/m <sup>3</sup>	GB EH40
Xylene	1330-20-7	STEL	100 ppm 441 mg/m <sup>3</sup>	GB EH40
		TWA	50 ppm 220 mg/m <sup>3</sup>	GB EH40
		TWA	50 ppm 221 mg/m <sup>3</sup>	2000/39/EC
		STEL	100 ppm 442 mg/m <sup>3</sup>	2000/39/EC

**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

**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 : butyl-rubber Neoprene

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.




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In the case of dust or aerosol formation use 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
Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	Not applicable
	:	No data available
Boiling point/boiling range	:	-44 °C
	:	No data available
Flash point	:	-97 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	10,9 %(V)
Lower explosion limit	:	0,7 %(V)
Vapour pressure	:	8.300 hPa (20 °C)
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0,717 g/cm <sup>3</sup> (20 °C)
Solubility(ies)		
Water solubility	:	immiscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available

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Viscosity  
     Viscosity, dynamic : No data available  
  
     Viscosity, kinematic : Not applicable  
  
 Oxidizing properties : No data available

## 9.2 Other information

No data available

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## 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.

### 10.5 Incompatible materials

Materials to avoid : alkalis  
aluminum  
Lead  
peroxides  
Strong acids  
strong alkalis  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : acrid smoke and fumes  
carbon dioxide and carbon monoxide  
Hydrocarbons

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Skin contact


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Eye Contact  
Ingestion

**Acute toxicity**

Not classified based on available information.

**Components:**

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

Acute oral toxicity : LD50 (Rat, male and female): &gt; 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): &gt; 2.800 - 3.100 mg/kg

**Components:**

4-Hydroxy-4-methylpentan-2-one

Acute oral toxicity : LD50 (Rat): 3.002 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): 13.500 mg/kg  
 LD50 (Rat): > 1.875 mg/kg  
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.

**Components:**

Xylene

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

Acute inhalation toxicity : LC50 (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 : LD50 (Rabbit): 1.700 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


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similar substances.

**Components:**

Butane

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

**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:**

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

Species: Rabbit

Method: OECD Test Guideline 404

Result: Slight, transient irritation

4-Hydroxy-4-methylpentan-2-one

Species: Rabbit

Method: OECD Test Guideline 404

Result: Slight, transient irritation

Xylene

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:**

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

Species: Rabbit

Result: Slight, transient irritation

4-Hydroxy-4-methylpentan-2-one

Species: Human

Result: Irritating to eyes.

Remarks: 100 ppm for 15 minutes

Xylene

Result: Irritating to eyes.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.


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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

4-Hydroxy-4-methylpentan-2-one

Test Type: Maximisation Test

Species: Guinea pig

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.

Butane

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.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

May cause respiratory irritation.

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May cause drowsiness or dizziness.

**Components:**

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics  
 Assessment: May cause drowsiness or dizziness.

4-Hydroxy-4-methylpentan-2-one  
 Assessment: May cause respiratory irritation.

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

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Components:**

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics  
 May be fatal if swallowed and enters airways.

Xylene  
 May be fatal if swallowed and enters airways.

**Further information**

**Product:**

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

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components:**

Hydrocarbons, 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


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mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

Toxicity to daphnia and other  
 aquatic invertebrates  
 (Chronic toxicity) : NOEC: 0,17 mg/l  
 Exposure time: 21 d  
 Species: 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.

4-Hydroxy-4-methylpentan-2-one  
 Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other  
 aquatic invertebrates : EC50 (Water flea (Daphnia magna)): > 1.000 mg/l  
 Exposure time: 48 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): >  
 1.000 mg/l  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

Xylene  
 Toxicity to fish : LC50 (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 : LC50 (Water flea (Daphnia magna)): > 100 - < 1.000 mg/l  
 Exposure time: 24 h  
 Test Type: static test

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

Toxicity to daphnia and other  
 aquatic invertebrates : EC50 (Daphnia magna (Water flea)): Expected > 10 - < 100  
 mg/l  
 Exposure time: 48 h


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Remarks: QSAR

Toxicity to algae : EC50 (green algae): Expected 7,7 mg/l  
 Exposure time: 96 h  
 Remarks: QSAR

**12.2 Persistence and degradability**
**Components:**

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

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

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

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

**12.3 Bioaccumulative potential**
**Components:**

4-Hydroxy-4-methylpentan-2-one

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

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


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

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

**12.4 Mobility in soil**

No data available



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### 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., 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.

## SECTION 14: Transport information

### SECTION 14: Transport information

#### 14.1 UN number

ADR: Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: UN1950

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: UN1950

INTERNATIONAL MARITIME DANGEROUS GOODS: UN1950

RID: Not dangerous goods

#### 14.2 UN proper shipping name

ADR: Not dangerous goods


INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Aerosols, flammable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Aerosols, flammable

INTERNATIONAL MARITIME DANGEROUS GOODS: AEROSOLS

RID: Not dangerous goods

#### 14.3 Transport hazard class(es)

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**ADR:** Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** 2.1  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** 2.1  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** 2.1  
**RID:** Not dangerous goods

#### 14.4 Packing group

**ADR:** Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:**  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:**  
**INTERNATIONAL MARITIME DANGEROUS GOODS:**  
**RID:** Not dangerous goods

#### 14.5 Environmental hazards

**ADR:** Environmentally hazardous  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Environmentally hazardous  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Environmentally hazardous  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** Environmentally hazardous, MARINE POLLUTANT  
**RID:** Environmentally hazardous

#### 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.

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### 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 59) : 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) : Butane  
 Propane

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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.

		Quantity 1	Quantity 2
P3a	FLAMMABLE AEROSOLS	150 t	500 t
E2	ENVIRONMENTAL HAZARDS	200 t	500 t

according to Detergents Regulation EC 648/2004 : 30 % and more: Aliphatic hydrocarbons  
5 % or over but less than 15 %: Aromatic hydrocarbons

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:**

TSCA	: On TSCA Inventory
DSL	All components of this product are on the Canadian DSL
AICS	On the inventory, or in compliance with the inventory
ENCS	Not in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the 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

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**SECTION 16: Other information**

**Further information**

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**Classification procedure:**

H222,	Extremely flammable aerosol.,	Calculation method
H229	Pressurised container: May burst if heated.	
H315	Causes skin irritation.	Calculation method
H319	Causes serious eye irritation.	Calculation method
H336	May cause drowsiness or dizziness.	Calculation method
H335	May cause respiratory irritation.	Calculation method
H304	May be fatal if swallowed and enters airways.	Calculation method
H411	Toxic to aquatic life with long lasting effects.	Calculation method

**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.
H281	Contains refrigerated gas; may cause cryogenic burns or injury.
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.
H412	Harmful 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.


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

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

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

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

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

H-statement : Hazard Statement

IATA : International Air Transport Association.

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

ICAO : International Civil Aviation Organization

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

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

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

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands

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

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

CLP : Classification, Labelling and Packaging

CSA : Chemical Safety Assessment

CSR : Chemical Safety Report

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

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RID : Regulation Concerning the International Transport of Dangerous Goods by Rail  
S-phrase: Safety phrase  
WGK : German Water Hazard Class