

	
<b>SAFETY DATA SHEET</b>	Revision Date: 06.02.2018
	Print Date: 15.09.2022
	SDS Number: 000000267975
Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE ™ Trademark, Valvoline or its subsidiaries, registered in various countries 874739	Version: 5.0

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™ MULTI-VEHICLE COOLANT CONCENTRATE

™ Trademark, Valvoline or its subsidiaries, registered in various countries

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

Recommended use : Coolant and antifreeze.

<p><b>1.3 Details of the supplier of the safety data sheet</b> 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</p> <p>SDS@valvoline.com</p>	<p><b>1.4 Emergency telephone number</b> 00-800-825-8654 / 001-859-202-3865, or contact your local emergency telephone number at 112</p> <p><b>Product Information</b> +31 (0)78 654 3500 (in the Netherlands), or contact your local CSR contact person</p>
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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4

H302: Harmful if swallowed.

Specific target organ toxicity - repeated exposure, Category 2, Kidney

H373: May cause damage to organs through prolonged or repeated exposure if swallowed.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)



## SAFETY DATA SHEET

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
 ™ Trademark, Valvoline or its subsidiaries, registered in various  
 countries  
 874739

Hazard pictograms



Signal word

: Warning

Hazard statements

: H302  
H373

Harmful if swallowed.  
 May cause damage to organs (Kidney)  
 through prolonged or repeated exposure if  
 swallowed.

Precautionary statements

: P101

If medical advice is needed, have product  
 container or label at hand.  
 Keep out of reach of children.

P102

**Prevention:**

P260

Do not breathe dust/ fume/ gas/ mist/  
 vapours/ spray.

P264

Wash skin thoroughly after handling.

P270

Do not eat, drink or smoke when using this  
 product.

**Disposal:**

P501

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

Hazardous components which must be listed on the label:

Ethanediol

2,2' -Oxybisethanol

Sodium nitrite

**2.3 Other hazards****Additional advice**

No information available.

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

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Ethanediol	107-21-1 203-473-3 01-2119456816-28-xxxx	Acute Tox.4; H302 STOT RE2; H373	>= 90,00 - <= 100,00


**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
 ™ Trademark, Valvoline or its subsidiaries, registered in various  
 countries  
 874739

2,2'-Oxybisethanol	111-46-6 203-872-2 01-2119457857-21-xxxx	Acute Tox.4; H302 STOT RE2; H373	>= 2,50 - < 5,00
Sodium nitrite	7632-00-0 231-555-9 01-2119471836-27-xxxx	Ox. Sol.2; H272 Acute Tox.3; H301 Eye Irrit.2; H319 Aquatic Acute1; H400	>= 0,25 - < 0,50
Sodium 4(or 5)-methyl- 1H-benzotriazolide	64665-57-2 265-004-9	Acute Tox.4; H302 Skin Corr.1B; H314 Eye Dam.1; H318 Aquatic Chronic2; H411	>= 0,25 - < 0,50

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.  
 Show this safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.  
 If unconscious, place in recovery position and seek medical  
 advice.  
 If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is  
 recommended that exposed areas be cleaned by washing  
 with soap and water.
- In case of eye contact : Flush eyes with water as a precaution.  
 Remove contact lenses.  
 Protect unharmed eye.  
 If eye irritation persists, consult a specialist.
- If swallowed : Obtain medical attention.  
 Rinse mouth with water.  
 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


**SAFETY DATA SHEET**

Revision Date: 06.02.2018

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Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
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 countries  
 874739

breathing, swallowing, and/or passage of the material through the skin may include:  
 stomach or intestinal upset (nausea, vomiting, diarrhea)  
 irritation (nose, throat, airways)  
 Cough  
 pain in the abdomen and lower back  
 cyanosis (causes blue coloring of the skin and nails from lack of oxygen)  
 lung edema (fluid buildup in the lung tissue)  
 acute kidney failure (sudden slowing or stopping of urine production)  
 Convulsions

**Risks**

: Effects of acute ethylene glycol poisoning appear in three fairly distinct stages. The initial stage occurs shortly after exposure, lasts 6-12 hours, and is characterized by central nervous system effects (transient exhilaration, nausea, vomiting, and in severe cases, coma, convulsions, and possible death). The second stage lasts from 12-36 hours after exposure and is initiated by the onset of coma. This phase is characterized by tachypnea, tachycardia, mild hypotension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and congestive failure. The final stage occurs 24-72 post-exposure and is characterized by renal failure, ranging from a mild increase in blood urea nitrogen and creatinine followed by recovery, to complete anuria with acute tubular necrosis that can lead to death. Oxaluria is found in most cases. The most significant laboratory finding in ethylene glycol intoxication is severe metabolic acidosis.

Harmful if swallowed.

**4.3 Indication of any immediate medical attention and special treatment needed**
**Treatment**

: This product contains ethylene glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical care will be delayed several hours, give the patient three to four 1-ounce oral "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol poisoning. Hemodialysis effectively removes ethylene glycol and its metabolites from the body.


**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
 ™ Trademark, Valvoline or its subsidiaries, registered in various  
 countries  
 874739

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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  
 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 : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Alcohols  
 Aldehydes  
 carbon dioxide and carbon monoxide  
 ethers  
 toxic fumes  
 Hydrocarbons

**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.

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**SECTION 6: Accidental release measures**
**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : 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.


**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
 ™ Trademark, Valvoline or its subsidiaries, registered in various  
 countries  
 874739

**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**

Methods for cleaning up : Keep in suitable, closed containers for disposal.

**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 : Do not breathe vapours/dust.  
 Do not smoke.  
 Container hazardous when empty.  
 Smoking, eating and drinking should be prohibited in the  
 application area.  
 For personal protection see section 8.  
 Dispose of rinse water in accordance with local and national  
 regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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 : 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.

Other data : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

Specific use(s) : No data available


**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
 ™ Trademark, Valvoline or its subsidiaries, registered in various  
 countries  
 874739

**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**
**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethenediol	107-21-1	TWA	20 ppm 52 mg/m <sup>3</sup>	2000/39/EC
		STEL	40 ppm 104 mg/m <sup>3</sup>	2000/39/EC
		TWA (Vapour)	20 ppm 52 mg/m <sup>3</sup> Vapour	GB EH40
		TWA (particles)	10 mg/m <sup>3</sup> particles	GB EH40
		STEL (Vapour)	40 ppm 104 mg/m <sup>3</sup> Vapour	GB EH40
2,2' -Oxybisethanol	111-46-6	TWA	23 ppm 101 mg/m <sup>3</sup>	GB EH40

**8.2 Exposure controls**
**Engineering measures**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

**Personal protective equipment**

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Hand protection

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

**SECTION 9: Physical and chemical properties**


**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
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 countries  
 874739

**9.1 Information on basic physical and chemical properties**

Appearance	: liquid
Colour	: light yellow
Odour	: No data available
Odour Threshold	: No data available
pH	: 8,3 - 11,5
Melting point/freezing point	: < -34 °C
Boiling point/boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 1,1 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n- octanol/water	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available


**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
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 countries  
 874739

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 : Product will not undergo hazardous polymerization.

**10.4 Conditions to avoid**

Conditions to avoid : excessive heat

**10.5 Incompatible materials**

Materials to avoid : Acids  
 Aldehydes  
 Alkali metals  
 Alkaline earth metals  
 Bases  
 strong alkalis  
 Strong oxidizing agents  
 Sulphur compounds

**10.6 Hazardous decomposition products**

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

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**SECTION 11: Toxicological information**
**11.1 Information on toxicological effects**

		Page: 10
<b>SAFETY DATA SHEET</b>		Revision Date: 06.02.2018
		Print Date: 15.09.2022
		SDS Number: 00000267975
Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE ™ Trademark, Valvoline or its subsidiaries, registered in various countries 874739		Version: 5.0

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

**Acute toxicity**

Harmful if swallowed.

**Product:**

Acute oral toxicity :  
 Remarks: Ingestion of medications contaminated with diethylene glycol has caused kidney failure and death in humans. Products containing diethylene glycol should be considered toxic by ingestion.

Acute dermal toxicity : Remarks: Skin absorption of this material (or a component) may be increased through injured skin.

**Components:**

**ETHYLENE GLYCOL:**

Acute oral toxicity : **LD0 (Human): Estimated 1,56 g/kg**  
 Assessment: **The component/mixture is classified as acute oral toxicity, category 4.**

Acute inhalation toxicity : **LC50 (Rat): 10,9 mg/l**  
 Exposure time: **1 h**  
 Test atmosphere: **dust/mist**  
 Assessment: **No adverse effect has been observed in acute inhalation toxicity tests.**

Acute dermal toxicity : **LD50 (Rabbit): 9.530 mg/kg**

Acute toxicity (other routes of administration) : **LD50 (Rat): 5.010 mg/kg**  
 Application Route: **Intraperitoneal**

**Components:**

**DIETHYLENE GLYCOL:**

Acute oral toxicity : **LD50 (Human): Expected 1.120 mg/kg**  
 Target Organs: **Kidney**

Acute inhalation toxicity : **LC50 (Rat): > 4,6 mg/l**  
 Exposure time: **4 h**  
 Test atmosphere: **dust/mist**  
 Assessment: **No adverse effect has been observed in acute**

**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
™ Trademark, Valvoline or its subsidiaries, registered in various  
countries  
874739

**inhalation toxicity tests.**

Acute dermal toxicity : LD50 (Rabbit): 13.300 mg/kg

**Components:****SODIUM NITRITE:**

Acute oral toxicity : LD50 (Rat): 180 mg/kg

Acute inhalation toxicity : LC50 (Rat): 5,5 mg/l  
Exposure time: 4 h**Components:****TOLYLTRIAZOLE, SODIUM SALT:**

Acute oral toxicity : LD50 (Rat, female): 735 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: Not classified as acutely toxic by dermal  
absorption under GHS.**Skin corrosion/irritation**

Not classified based on available information.

**Components:****ETHYLENE GLYCOL:**

Species: Rabbit

Result: No skin irritation

**DIETHYLENE GLYCOL:**

Species: Human

Result: Slight, transient irritation

**SODIUM NITRITE:**

Result: No skin irritation

**TOLYLTRIAZOLE, SODIUM SALT:**

Result: Corrosive to skin

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Unlikely to cause eye irritation or injury.

**Components:****ETHYLENE GLYCOL:**

**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 00000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
™ Trademark, Valvoline or its subsidiaries, registered in various countries  
874739

Result: **Slight, transient irritation****DIETHYLENE GLYCOL:**Species: **Rabbit**Result: **Slight, transient irritation****SODIUM NITRITE:**Result: **Irritating to eyes.****TOLYLTRIAZOLE, SODIUM SALT:**Result: **Corrosive****Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:****ETHYLENE GLYCOL:**Test Type: **Maximisation Test**Species: **Guinea pig**Assessment: **Does not cause skin sensitisation.****DIETHYLENE GLYCOL:**Test Type: **Maximisation Test**Species: **Guinea pig**Method: **Directive 67/548/EEC, Annex V, B.6.****Germ cell mutagenicity**

Not classified based on available information.

**Components:****ETHYLENE GLYCOL:**

Genotoxicity in vitro

: Test Type: **Ames test**Test species: **Salmonella typhimurium**Metabolic activation: **with and without metabolic activation**Result: **negative****DIETHYLENE GLYCOL:**

Genotoxicity in vitro

: Test Type: **Ames test**Metabolic activation: **with and without metabolic activation**Method: **OECD Test Guideline 471**Result: **negative**GLP: **yes**: Test species: **Chinese hamster ovary cells**Metabolic activation: **with and without metabolic activation**Method: **OECD Test Guideline 479**

**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
™ Trademark, Valvoline or its subsidiaries, registered in various  
countries  
874739

Genotoxicity in vivo : Result: **negative**  
GLP: **yes**  
: Test Type: **In vivo micronucleus test**  
Test species: **Mouse**  
Method: **OECD Test Guideline 474**  
Result: **negative**  
GLP: **yes**

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Components:****ETHYLENE GLYCOL:**

Exposure routes: **Ingestion**  
Target Organs: **Kidney**  
Assessment: **May cause damage to organs through prolonged or repeated exposure.**

**DIETHYLENE GLYCOL:**

Exposure routes: **Ingestion**  
Target Organs: **Kidney**  
Assessment: **May cause damage to organs through prolonged or repeated exposure.**

**Aspiration toxicity**

Not classified based on available information.

**Experience with human exposure****Components:****DIETHYLENE GLYCOL:**General Information: **Liver****Further information****Product:**

Remarks: No data available

**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 00000267975

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
 ™ Trademark, Valvoline or its subsidiaries, registered in various  
 countries  
 874739

Version: 5.0

**SECTION 12: Ecological information****12.1 Toxicity****Components:****Ethenediol**

Toxicity to fish : **LC50 (Lepomis macrochirus (Bluegill sunfish)): 27.540 mg/l**  
 Exposure time: 96 h  
 Test Type: static test

**LC50 (Pimephales promelas (fathead minnow)): 8.050 mg/l**  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : **LC50 (Daphnia magna (Water flea)): > 10.000 mg/l**  
 Exposure time: 48 h  
 Test Type: static test

Toxicity to algae : **EC50 (Pseudokirchneriella subcapitata (green algae)): 6.500 - 13.000 mg/l**  
 End point: Growth inhibition  
 Exposure time: 7 Days

Toxicity to fish (Chronic toxicity) : **NOEC: 32.000 mg/l**  
 Exposure time: 7 d  
 Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : **NOEC: 24.000 mg/l**  
 Exposure time: 7 d  
 Species: Daphnia magna (Water flea)

**2,2' -Oxybisethanol**

Toxicity to daphnia and other aquatic invertebrates : **LC50 (Water flea (Daphnia magna)): > 10.000 mg/l**  
 Exposure time: 24 h  
 Test Type: static test  
 Method: DIN 38412

**Sodium nitrite**

Toxicity to fish : **LC50 (Pimephales promelas (fathead minnow)): 2,35 - 3,81 mg/l**  
 Exposure time: 96 h  
 Test Type: flow-through test

**LC50 (Oncorhynchus mykiss (rainbow trout)): 0,54 - 26,3 mg/l**  
 Exposure time: 96 h  
 Test Type: flow-through test

**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
 ™ Trademark, Valvoline or its subsidiaries, registered in various  
 countries  
 874739

Version: 5.0

Toxicity to daphnia and other aquatic invertebrates	: <b>EC50 (Water flea (Daphnia magna)):</b> 15,4 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae	: <b>EC50 (Desmodesmus subspicatus (green algae)):</b> > 100 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201
Toxicity to bacteria	: <b>EC10 (activated sludge):</b> 210 mg/l Exposure time: 3 h Test Type: Static Method: OECD Test Guideline 209
Toxicity to fish (Chronic toxicity)	: <b>NOEC:</b> 6,16 mg/l Exposure time: 31 d Species: Ictalurus catus (catfish) Test Type: flow-through test
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: <b>NOEC:</b> 9,86 mg/l Exposure time: 80 d Species: Aquatic invertebrates Test Type: static test

## Sodium 4(or 5)-methyl-1H-benzotriazole

Toxicity to fish	: <b>LC50 (Lepomis macrochirus (Bluegill sunfish)):</b> > 173 mg/l Exposure time: 96 h  <b>LC50 (Danio rerio (zebra fish)):</b> 122 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: <b>EC50 (Water flea (Daphnia magna)):</b> 280 mg/l Exposure time: 48 h
Toxicity to algae	: <b>EC50 (Pseudokirchneriella subcapitata (green algae)):</b> 26,2 mg/l Exposure time: 72 h Test Type: Growth inhibition
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: <b>EC10:</b> 0,4 mg/l Exposure time: 21 d Species: Water flea (Daphnia magna) Test Type: semi-static test Method: OECD Test Guideline 211 Remarks: Information given is based on data obtained from similar substances.



## SAFETY DATA SHEET

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
 ™ Trademark, Valvoline or its subsidiaries, registered in various  
 countries  
 874739

### 12.2 Persistence and degradability

#### Components:

Ethanediol

Biodegradability : Result: **Readily biodegradable.**  
 Biodegradation: **90 - 100 %**  
 Exposure time: **10 d**  
 Method: **OECD Test Guideline 301**

2,2' -Oxybisethanol

Biodegradability : Result: **Readily biodegradable.**  
 Biodegradation: **70 - 80 %**  
 Exposure time: **28 d**  
 Method: **OECD Test Guideline 301B**

Sodium nitrite

Biodegradability : Result: **The methods for determining biodegradability are not applicable to inorganic substances.**

Sodium 4(or 5)-methyl-1H-benzotriazolide

Biodegradability : Result: **Not readily biodegradable.**  
 Biodegradation: **> 70 %**  
 Exposure time: **28 d**  
 Method: **OECD Test Guideline 302B**

### 12.3 Bioaccumulative potential

#### Components:

Ethanediol

Bioaccumulation : Species: **Crayfish (Procambarus)**  
 Exposure time: **61 d**  
 Concentration: **1000 mg/l**  
 Bioconcentration factor (BCF): **0,27**  
 Method: **Flow through**

Partition coefficient: n-octanol/water : log Pow: **-1,36**

2,2' -Oxybisethanol

Bioaccumulation : Species: **Leuciscus idus (Golden orfe)**  
 Bioconcentration factor (BCF): **100**

Partition coefficient: n-octanol/water : log Pow: **-1,47**

Sodium nitrite

Partition coefficient: n-octanol/water : log Pow: **-3,700 (25 °C)**

**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
™ Trademark, Valvoline or its subsidiaries, registered in various countries  
874739

Sodium 4(or 5)-methyl-1H-benzotriazolid

Partition coefficient: n-octanol/water : log Pow: 0,658

**12.4 Mobility in soil****Components:**

Sodium nitrite

Stability in soil : Remarks: Not expected to adsorb on soil.

**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.

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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.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

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**SECTION 14: Transport information****SECTION 14: Transport information****14.1 UN number****ADN:** Not dangerous goods**ADR:** Not dangerous goods**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods


**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
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 countries  
 874739

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

#### 14.2 UN proper shipping name

**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

#### 14.3 Transport hazard class(es)

**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

#### 14.4 Packing group

**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods

**RID:** Not dangerous goods

#### 14.5 Environmental hazards

**ADN:** Not applicable

**ADR:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not applicable

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not applicable

**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not applicable

**RID:** 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

		Page: 19
<b>SAFETY DATA SHEET</b>		Revision Date: 06.02.2018
		Print Date: 15.09.2022
		SDS Number: 000000267975
Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE ™ Trademark, Valvoline or its subsidiaries, registered in various countries 874739		Version: 5.0

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

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 57). : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

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.

AICS Not in compliance with the inventory

ENCS Not in compliance with the inventory

**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
 ™ Trademark, Valvoline or its subsidiaries, registered in various  
 countries  
 874739

KECI	Not in compliance with the inventory
PICCS	Not in compliance with the inventory
IECSC	On the inventory, or 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**

Revision Date: 06.02.2018

**Full text of H-Statements**

H272	May intensify fire; oxidizer.
<b>H301</b>	Toxic if swallowed.
H302	Harmful if swallowed.
<b>H314</b>	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure if swallowed.
<b>H400</b>	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

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


**SAFETY DATA SHEET**

Revision Date: 06.02.2018

Print Date: 15.09.2022

SDS Number: 000000267975

Version: 5.0

Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE  
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 countries  
 874739

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

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

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

ABM : Water Hazard Class for the Netherlands  
 ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN: Regulation for the Carriage of Dangerous Substances on the Rhine  
 CLP : Classification, Labelling and Packaging  
 CSA : Chemical Safety Assessment  
 CSR : Chemical Safety Report

	Page: 22
<b>SAFETY DATA SHEET</b>	Revision Date: 06.02.2018
	Print Date: 15.09.2022
	SDS Number: 000000267975
Valvoline™ MULTI-VEHICLE COOLANT CONCENTRATE ™ Trademark, Valvoline or its subsidiaries, registered in various countries 874739	Version: 5.0

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