

	
SAFETY DATA SHEET	Revision Date: 06.02.2018
	Print Date: 19.10.2020
	SDS Number: 000000267946
Valvoline™ MULTI-VEHICLE COOLANT RTU ™ Trademark, Valvoline or its subsidiaries, registered in various countries 874733	Version: 4.0

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 RTU

™ 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.

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)

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)



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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.

P102

Keep out of reach of children.

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	>= 50,00 - < 60,00


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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	>= 0,10 - < 0,25
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	>= 0,10 - < 0,25

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


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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.


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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 (CO₂)
 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 : Standard procedure for chemical fires.

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.


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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.

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.

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

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection


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8.1 Control parameters
Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethanediol	107-21-1	TWA	20 ppm 52 mg/m ³	2000/39/EC
		STEL	40 ppm 104 mg/m ³	2000/39/EC
		TWA (Vapour)	20 ppm 52 mg/m ³ Vapour	GB EH40
		TWA (particles)	10 mg/m ³ particles	GB EH40
		STEL (Vapour)	40 ppm 104 mg/m ³ Vapour	GB EH40
2,2' -Oxybisethanol	111-46-6	TWA	23 ppm 101 mg/m ³	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
9.1 Information on basic physical and chemical properties


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Appearance : liquid

Colour : light yellow

Odour : No data available

Odour Threshold : No data available

pH : ca. 10

Melting point/freezing point : < -34 °C

Boiling point/boiling range : No data available

Flash point : Not applicable

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. 1,08 g/cm³ (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

Oxidizing properties : No data available


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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 : 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

SECTION 11: Toxicological information
11.1 Information on toxicological effects

Information on likely routes of : Inhalation

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exposure

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 inhalation toxicity tests.

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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:**

Result: Slight, transient irritation

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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**Result: **negative**



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GLP: **yes**

Genotoxicity in vivo

: 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

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

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**

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Water flea (Daphnia magna)): 15,4 mg/l**
 Exposure time: 48 h

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	Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae	: EC50 (Desmodesmus subspicatus (green algae)) : > 100 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201
Toxicity to bacteria	: EC10 (activated sludge) : 210 mg/l Exposure time: 3 h Test Type: Static Method: OECD Test Guideline 209
Toxicity to fish (Chronic toxicity)	: NOEC : 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)	: NOEC : 9,86 mg/l Exposure time: 80 d Species: Aquatic invertebrates Test Type: static test

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

Toxicity to fish	: LC50 (Lepomis macrochirus (Bluegill sunfish)) : > 173 mg/l Exposure time: 96 h LC50 (Danio rerio (zebra fish)) : 122 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Water flea (Daphnia magna)) : 280 mg/l Exposure time: 48 h
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (green algae)) : 26,2 mg/l Exposure time: 72 h Test Type: Growth inhibition
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: EC10 : 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.



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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)**

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

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 : No data available

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : Do not dispose of waste into sewer.
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.

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


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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

Pollutant Category: Not applicable

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

SECTION 15: Regulatory information

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

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

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

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

REACH - 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

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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**

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Full text of H-Statements

H272	May intensify fire; oxidizer.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	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).


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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
 DNEL : Derived No Effect Level.

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- 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