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Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_GB

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : Valvoline™ AUTOMATIC TRANSMISSION CLNR

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

Recommended use : Cleaner.

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

### 2.1 Classification of the substance or mixture

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


Long-term (chronic) aquatic hazard, Category 3      H412: Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

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

Hazard statements : H412      Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273      Avoid release to the environment.  
**Disposal:**  
P501      Dispose of contents/ container to an approved waste disposal plant.

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#### Additional Labelling:

EUH208 Contains Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs., 1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS., 1-(tert-Dodecylthio)propan-2-ol.  
May produce an allergic reaction.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### Additional advice


No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 01-2119484627-25-xxxx	Asp. Tox.1; H304	>= 90,00 - <= 100,00
Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.	866259-61-2 471-920-1 01-0000019770-68-xxxx	Skin Sens.1B; H317	>= 0,50 - < 1,00
1,2-PROPANEDIOL, 3- AMINO, N,N,-DICOCO ALKYL DERIVS.	482-000-4 01-0000020142-86-xxxx	Skin Sens.1B; H317 Aquatic Chronic3; H412	>= 0,50 - < 1,00
1-(tert- Dodecylthio)propan-2- ol	67124-09-8 266-582-5 01-2119953277-30-xxxx	Skin Sens.1; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0,50 - < 1,00
2-(2-Heptadec-8-enyl- 2-imidazolin-1- yl)ethanol	95-38-5 202-414-9 01-2119777867-13-xxxx	Acute Tox.4; H302 Skin Corr.1C; H314 Eye Dam.1; H318 STOT RE2; H373 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0,025 - < 0,10

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For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
- 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 : 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 : No symptoms known or expected.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No hazards which require special first aid measures.


## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during : Do not allow run-off from fire fighting to enter drains or water

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firefighting

courses.

Hazardous combustion  
products

: carbon dioxide and carbon monoxide  
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.

## 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.

### 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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
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 : Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.

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

Hygiene measures : General industrial hygiene practice.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Advice on common storage : No materials to be especially mentioned.

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

## 8.1 Control parameters


Contains no substances with occupational exposure limit values.

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

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol : End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 0,46 mg/m3RD TOX - Repeated dose toxicity  
End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Acute systemic effects  
Value: 14 mg/m3RD TOX - Repeated dose toxicity  
End Use: Workers  
Exposure routes: Dermal  
Potential health effects: Long-term systemic effects  
Value: 0,06 mg/kgRD TOX - Repeated dose toxicity  
End Use: Workers  
Exposure routes: Dermal  
Potential health effects: Acute systemic effects  
Value: 2 mg/kgRD TOX - Repeated dose toxicity

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol : Sewage treatment plant  
Value: 0,27 mg/l  
Fresh water sediment  
Value: 0,376 mg/kg

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Marine sediment  
Value: 0,0376 mg/kg  
Soil  
Value: 0,075 mg/kg

## 8.2 Exposure controls

### Engineering measures

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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.

Skin and body protection : Wear as appropriate:  
Safety shoes

Respiratory protection : No personal respiratory protective equipment normally required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : amber

Odour : No data available

Odour Threshold : No data available

pH : Not applicable


Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : > 100 °C  
Method: Pensky-Martens closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

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Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 0,842 g/cm<sup>3</sup> (20 °C)

Solubility(ies)

Water solubility : insoluble

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 : 34 mm<sup>2</sup>/s (40 °C)

Oxidizing properties : No data available

## 9.2 Other information

Self-ignition : 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.

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#### 10.4 Conditions to avoid

Conditions to avoid : None known.

#### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

#### 10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

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

##### Acute toxicity

Not classified based on available information.

##### Components:

##### **HEAVY PARAFFINIC DISTILLATE:**

Acute oral toxicity : LD50 (Rat): > 15 g/kg

Acute dermal toxicity : LD50 (Rabbit): > 5 g/kg

##### Components:

##### **Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.:**

Acute oral toxicity : LD50 (Rat): > 2.500 mg/kg  
Assessment: Not classified as acutely toxic by ingestion under GHS.  
Remarks: No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Assessment: Not classified as acutely toxic by dermal absorption under GHS.  
Remarks: No mortality observed at this dose.

##### Components:

##### **DODECYL HYDROXYPROPYL SULFIDE:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
GLP: yes




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

**Components:**
**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Acute oral toxicity : LD50 (Rat): ca. 1.265 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**
**HEAVY PARAFFINIC DISTILLATE:**

Result: Slight, transient irritation

**Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.:**

Species: Rabbit

Result: Mild skin irritation

**1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS.:**

Result: Slight, transient irritation

**DODECYL HYDROXYPROPYL SULFIDE:**

Species: Rabbit

Result: No skin irritation

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive after 1 to 4 hours of exposure

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Unlikely to cause eye irritation or injury.

**Components:**
**HEAVY PARAFFINIC DISTILLATE:**


Result: No eye irritation

**Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.:**

Species: Rabbit

Result: Slight, transient irritation

**1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS.:**

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Result: Slight, transient irritation

**DODECYL HYDROXYPROPYL SULFIDE:**

Species: Rabbit

Result: No eye irritation

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Result: Corrosive

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Components:**

**Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.:**

Test Type: Local lymph node assay (LLNA)

Assessment: The product is a skin sensitiser, sub-category 1B.

Method: OECD Test Guideline 429

**1,2-PROPANEDIOL, 3-AMINO, N,N-DICOCO ALKYL DERIVS.:**

Assessment: The product is a skin sensitiser, sub-category 1B.

**DODECYL HYDROXYPROPYL SULFIDE:**

Test Type: Local lymph node assay

Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 429

**OLEYL HYDROXYETHYL IMIDAZOLINE:**

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.:**

Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative


**DODECYL HYDROXYPROPYL SULFIDE:**

Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

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#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.

#### **Components:**

##### **OLEYL HYDROXYETHYL IMIDAZOLINE:**

Exposure routes: Ingestion

Target Organs: Gastrointestinal tract, thymus gland

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

#### **Aspiration toxicity**

Not classified based on available information.

#### **Components:**

##### **HEAVY PARAFFINIC DISTILLATE:**

May be fatal if swallowed and enters airways.

#### **Further information**

#### **Product:**

Remarks: No data available

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**


#### **Components:**

Distillates (petroleum), hydrotreated heavy paraffinic

Toxicity to fish : LL50 (Fish): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EL50 (Aquatic invertebrates): > 10.000 mg/l  
Exposure time: 48 h

Toxicity to algae : EL50 (Algae, algal mat (Algae)): > 100 mg/l  
Exposure time: 72 h

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Toxicity to fish (Chronic toxicity) : NOEC: 10 mg/l  
Species: Fish

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Species: Aquatic invertebrates

Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 610 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Test substance: WAF

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 77 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae : EL50 (Desmodesmus subspicatus (green algae)): > 160 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test  
Test substance: WAF

1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS.

Ecotoxicology Assessment

Long-term (chronic) aquatic hazard : Harmful to aquatic life with long lasting effects.


1-(tert-Dodecylthio)propan-2-ol

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,75 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 0,58 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: WAF

Toxicity to algae : EL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: WAF

M-Factor (Short-term (acute) aquatic hazard) : 1

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL: 0,32 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

M-Factor (Long-term (chronic) aquatic hazard) : 1

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol  
Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,3 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,163 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 0,03 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

M-Factor (Short-term (acute) aquatic hazard) : 10

M-Factor (Long-term (chronic) aquatic hazard) : 1

## 12.2 Persistence and degradability

### Components:

Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.


Biodegradability : Result: Readily biodegradable.  
Biodegradation: 67 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

1,2-PROPANEDIOL, 3-AMINO, N,N,-DICOCO ALKYL DERIVS.

Biodegradability : Result: Not readily biodegradable.

1-(tert-Dodecylthio)propan-2-ol

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 5 %  
Exposure time: 28 d

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Method: OECD Test Guideline 301F

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol  
 Biodegradability : Result: Not readily biodegradable.  
 Biodegradation: 1 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301B

### 12.3 Bioaccumulative potential

**Components:**

1-(tert-Dodecylthio)propan-2-ol  
 Partition coefficient: n-octanol/water : log Pow: 4,7 - 6,5

2-(2-Heptadec-8-enyl-2-imidazolin-1-yl)ethanol  
 Partition coefficient: n-octanol/water : log Pow: 8

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

**Product:**


Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.

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.

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## SECTION 14: Transport information

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

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

## 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

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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

according to Detergents Regulation EC 648/2004 : 30 % and more: Aliphatic hydrocarbons

**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
KECI	Not in compliance with the inventory
PICCS	Not in compliance with the inventory
IECSC	Not in compliance with the inventory
TCSI	Not in compliance with the inventory
TSCA	Not On TSCA Inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**15.2 Chemical safety assessment**

No data available


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**SECTION 16: Other information**

**Further information**

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#### Full text of H-Statements

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
<b>H317</b>	May cause an allergic skin reaction.
H318	Causes serious eye damage.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure if swallowed.
<b>H400</b>	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
<b>H412</b>	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.

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.

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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.  
 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