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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™ GLASS CLEANER

™ 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 : Cleaner.

### 1.3 Details of the supplier of the safety data sheet

Ellis Enterprises B.V., an affiliate of Valvoline  
Wieldrechtseweg 39  
3316 BG Dordrecht  
Netherlands  
+31 (0)78 654 3500 (in the Netherlands), or  
contact your local CSR contact person

SDS@valvoline.com

### 1.4 Emergency telephone number

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

### Product Information

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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Aerosols, Category 1

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

Eye irritation, Category 2

H319: Causes serious eye irritation.

### 2.2 Label elements

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



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Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H319 Causes serious eye irritation.

Precautionary statements

: P102 Keep out of reach of children.  
**Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P260 Do not breathe spray.  
**Storage:**  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
**Disposal:**  
P501 Dispose of contents/container in accordance with regional regulations.

## 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 (%)
propan-2-ol	67-63-0 200-661-7 01-2119457558-25-xxxx	Flam. Liq.2; H225 Eye Irrit.2; H319 STOT SE3; H336	>= 15,00 - < 20,00

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Ammonia, aqueous solution	1336-21-6 215-647-6	Acute Tox.4; H302 Skin Corr.1B; H314 STOT SE3; H335 Aquatic Acute1; H400 Aquatic Chronic2; H411	>= 0,25 - < 0,50
Substances with a workplace exposure limit :			
Butane	106-97-8 203-448-7 01-2119474691-32-xxxx	Flam. Gas1; H220 Press. GasLiquefied gas; H280	>= 2,50 - < 5,00
1-Methoxypropan-2-ol	107-98-2 203-539-1 01-2119457435-35-xxxx	Flam. Liq.3; H226 STOT SE3; H336	>= 1,00 - < 2,50

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 : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No symptoms known or expected.
- Risks : Causes serious eye irritation.  
Repeated exposure may cause skin dryness or cracking.

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

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

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media


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

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

- Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide  
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

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be disposed of in accordance with local regulations.  
Use a water spray to cool fully closed containers.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.  
Remove all sources of ignition.  
Ensure adequate ventilation.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.

### 6.2 Environmental precautions

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

### 6.3 Methods and material for containment and cleaning up

### 6.4 Reference to other sections

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

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Open drum carefully as content may be under pressure.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
Container hazardous when empty.  
Take precautionary measures against static discharges.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against : Take necessary action to avoid static electricity discharge



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fire and explosion

(which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition. Use only explosion-proof equipment.

Hygiene measures

: Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. No smoking.

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

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
propan-2-ol	67-63-0	TWA	400 ppm 999 mg/m <sup>3</sup>	GB EH40
		STEL	500 ppm 1.250 mg/m <sup>3</sup>	GB EH40
Butane	106-97-8	STEL	750 ppm 1.810 mg/m <sup>3</sup>	GB EH40
		TWA	600 ppm 1.450 mg/m <sup>3</sup>	GB EH40
1-Methoxypropan-2-ol	107-98-2	TWA	100 ppm 375 mg/m <sup>3</sup>	2000/39/EC
		STEL	150 ppm 568 mg/m <sup>3</sup>	2000/39/EC
		TWA	100 ppm 375 mg/m <sup>3</sup>	GB EH40
		STEL	150 ppm	GB EH40

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			560 mg/m3	
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## 8.2 Exposure controls

### Engineering measures

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

### Personal protective equipment

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Wear as appropriate:  
Impervious clothing  
Safety shoes  
Flame-resistant clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : aerosol

Colour : clear

Odour : ammoniacal

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : No data available

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Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : 12 %(V)

Lower explosion limit / Lower flammability limit : 2 %(V)

Vapour pressure : 8 hPa (20 °C)

Relative vapour density : No data available

Relative density : No data available

Density : 0,91 g/cm<sup>3</sup> (20 °C)

Solubility(ies)

Water solubility : immiscible

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Ignition temperature : 425 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

**9.2 Other information**

Self-ignition : not auto-flammable


**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.



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### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Exposure to air or moisture over prolonged periods.  
Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Acids  
Aldehydes  
alkalis  
aluminum  
Amines  
Ethylene oxide  
halogenated hydrocarbons  
halogens  
isocyanates  
salts of strong bases  
strong bases  
Strong oxidizing agents  
Do not use with aluminum equipment at temperatures above 49C or 120 degrees F.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : 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:

#### ISOPROPANOL:

Acute oral toxicity : LD50 (Rat): 5,84 g/kg

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Acute inhalation toxicity : LC50 (Rat): 16000 ppm  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 12.800 mg/kg

**Components:**

**AMMONIUM HYDROXIDE ((NH<sub>4</sub>)(OH)):**

Acute oral toxicity : LD50 (Rat): 350 mg/kg

**Components:**

**BUTANE NORMAL:**

Acute inhalation toxicity : LC50 (Mouse): 680 mg/l  
Exposure time: 2 h  
  
LC50 (Rat): > 50000 ppm  
Exposure time: 2 h  
Test atmosphere: gas

**Components:**

**1-METHOXY-2-PROPANOL:**

Acute oral toxicity : LD50 (Rat): 4.016 mg/kg  
  
Acute inhalation toxicity : LC50 (Rat): > 10000 ppm  
Exposure time: 4 h  
Test atmosphere: vapour  
  
Acute dermal toxicity : LD50 (Rabbit): 13.000 mg/kg

**Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

**Product:**

Result: Repeated exposure may cause skin dryness or cracking.

Remarks: May cause skin irritation in susceptible persons.

**Components:**


**ISOPROPANOL:**

Result: Slight, transient irritation

**AMMONIUM HYDROXIDE ((NH<sub>4</sub>)(OH)):**

Result: Corrosive to skin

**1-METHOXY-2-PROPANOL:**

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Result: No skin irritation

### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Product:

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

#### Components:

##### **ISOPROPANOL:**

Result: Irritating to eyes.

##### **AMMONIUM HYDROXIDE ((NH<sub>4</sub>)(OH)):**

Result: Corrosive

##### **1-METHOXY-2-PROPANOL:**

Result: Slight, transient irritation

### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

#### Components:

##### **1-METHOXY-2-PROPANOL:**

Assessment: Did not cause sensitisation on laboratory animals.

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### **BUTANE NORMAL:**


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

##### **1-METHOXY-2-PROPANOL:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Result: negative

### Carcinogenicity

Not classified based on available information.

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#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

#### Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### Components:

##### ISOPROPANOL:

Assessment: May cause drowsiness or dizziness.

##### AMMONIUM HYDROXIDE ((NH<sub>4</sub>)(OH)):

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

##### 1-METHOXY-2-PROPANOL:

Assessment: May cause drowsiness or dizziness.

#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### Further information

#### Product:

Remarks: No data available

#### Components:

##### ISOPROPANOL:

Remarks: Central nervous system

## SECTION 12: Ecological information


### 12.1 Toxicity

#### Components:

propan-2-ol

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): 5.770 - 7.450 mg/l

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Exposure time: 96 h  
Test Type: flow-through test

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

Ammonia, aqueous solution  
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 8,5 mg/l  
Exposure time: 96 h

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

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

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

1-Methoxypropan-2-ol  
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test


Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l  
End point: Growth inhibition  
Exposure time: 7 d  
Test Type: static test

## 12.2 Persistence and degradability

### Components:

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

1-Methoxypropan-2-ol

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Biodegradability : Result: Readily biodegradable.  
Biodegradation: 96 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E

### 12.3 Bioaccumulative potential

#### Components:

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

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

### 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.


---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14: Transport information

### 14.1 UN number

ADN : UN 1950  
ADR : UN 1950  
RID : UN 1950  
IMDG : UN 1950  
IATA : UN 1950

### 14.2 UN proper shipping name

ADN : AEROSOLS  
ADR : AEROSOLS  
RID : AEROSOLS  
IMDG : AEROSOLS  
IATA : AEROSOLS

### 14.3 Transport hazard class(es)


ADN : 2  
ADR : 2  
RID : 2  
IMDG : 2.1  
IATA : 2.1

### 14.4 Packing group

**ADN**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1

**ADR**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

**RID**  
Packing group : Not assigned by regulation

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Classification Code : 5F  
Hazard Identification Number : 23  
Labels : 2.1

#### IMDG

Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable gas

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable gas

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : no

#### ADR

Environmentally hazardous : no

#### RID

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.


### 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



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### 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.

		Quantity 1	Quantity 2
P3a	FLAMMABLE AEROSOLS	150 t	500 t
18	Liquefied extremely flammable gases (including LPG) and natural gas	50 t	200 t

according to Detergents Regulation EC 648/2004 : 5 % or over but less than 15 %: 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

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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

### SECTION 16: Other information


#### Further information

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#### Full text of H-Statements

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.  
ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine  
CLP : Classification, Labelling and Packaging  
CSA : Chemical Safety Assessment  
CSR : Chemical Safety Report  
DNEL : Derived No Effect Level.

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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