	
<b>SAFETY DATA SHEET</b>	Revision Date: 28.02.2019
	Print Date: 12.09.2022
	SDS Number: 000000184480
Valvoline™ VAL SCREENWASHER CONC SCREEN WASH 760436	Version: 3.0

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™ VAL SCREENWASHER CONC  
SCREEN WASH

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

Recommended use : SCREEN WASH

### 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)

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

Eye irritation, Category 2

H319: Causes serious eye irritation.

### 2.2 Label elements

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

Hazard pictograms :



Signal word :

Warning


**SAFETY DATA SHEET**

Revision Date: 28.02.2019

Print Date: 12.09.2022

SDS Number: 00000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0

760436

Hazard statements	: H226 H319	Flammable liquid and vapour. Causes serious eye irritation.
Precautionary statements	: P101  P102 <b>Prevention:</b> P210	If medical advice is needed, have product container or label at hand. Keep out of reach of children.  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	<b>Response:</b> P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	<b>Disposal:</b> P501	Dispose of contents/ container to an approved waste disposal plant.

### 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 (%)
Ethanol	64-17-5 200-578-6 01-2119457610-43-xxxx	Flam. Liq.2; H225 Eye Irrit.2; H319	>= 70,00 - < 80,00
Ethenediol	107-21-1 203-473-3 01-2119456816-28-xxxx	Acute Tox.4; H302 STOT RE2; H373	>= 5,00 - < 10,00


**SAFETY DATA SHEET**

Revision Date: 28.02.2019

Print Date: 12.09.2022

SDS Number: 000000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0

760436

For explanation of abbreviations see section 16.

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**SECTION 4: First aid measures**
**4.1 Description of first aid measures**

- General advice : Move out of dangerous area.  
Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
Consult a physician after significant exposure.
- In case of skin contact : If on skin, rinse well with water.  
First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Obtain medical attention.  
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.
- 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.

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**SECTION 5: Firefighting measures**


**SAFETY DATA SHEET**

Revision Date: 28.02.2019

Print Date: 12.09.2022

SDS Number: 000000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0

760436

**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  
formaldehyde-like  
Hydrocarbons  
Alcohols  
Aldehydes  
ethers  
toxic fumes

**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.  
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.


**SAFETY DATA SHEET**

Revision Date: 28.02.2019

Print Date: 12.09.2022

SDS Number: 000000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0

760436

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.  
 Suppress (knock down) gases/vapours/mists with a water spray jet.

**6.2 Environmental precautions**

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

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**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 : Open drum carefully as content may be under pressure.  
 Avoid formation of aerosol.  
 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 exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 Smoking, eating and drinking should be prohibited in the application area.  
 For personal protection see section 8.  
 Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). No sparking tools should be used. Keep away from open flames, hot



## SAFETY DATA SHEET

Revision Date: 28.02.2019

Print Date: 12.09.2022

SDS Number: 000000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0

760436

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 : 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
Ethanol	64-17-5	TWA	1.000 ppm 1.920 mg/m <sup>3</sup>	GB EH40
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

### 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.


**SAFETY DATA SHEET**

Revision Date: 28.02.2019

Print Date: 12.09.2022

SDS Number: 000000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0

760436

**Personal protective equipment**

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

Hand protection

Remarks : butyl-rubber Neoprene gloves Nitrile rubber

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.

Respiratory protection

: In the case of vapour formation use a respirator with an approved filter.

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**SECTION 9: Physical and chemical properties**
**9.1 Information on basic physical and chemical properties**

Appearance : liquid

Colour : blue

Odour : citrus

Odour Threshold : No data available

pH : ca. 8

Melting point/freezing point : ca. -50 °C

Boiling point/boiling range : 84 °C

Flash point : 23 °C

Evaporation rate : Not applicable

Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : 19,0 %(V)


**SAFETY DATA SHEET**

Revision Date: 28.02.2019

Print Date: 12.09.2022

SDS Number: 000000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0

760436

Lower explosion limit / Lower flammability limit	: 3,4 %(V)
Vapour pressure	: 44,46 hPa (20 °C)
Relative vapour density	: No data available
Relative density	: 0,851 (20 °C)
Density	: 0,9 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	
Water solubility	: completely miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: Not applicable
Ignition temperature	: 400 °C
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Oxidizing properties	: No data available

**9.2 Other information**

Self-ignition	: 370 °C
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**SECTION 10: Stability and reactivity**
**10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Vapours may form explosive mixture with air.

**10.4 Conditions to avoid**

Conditions to avoid : Heat, flames and sparks.




**SAFETY DATA SHEET**

Revision Date: 28.02.2019

Print Date: 12.09.2022

SDS Number: 000000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0

760436

excessive heat

**10.5 Incompatible materials**

Materials to avoid : Acids  
 Aldehydes  
 Alkali metals  
 Alkaline earth metals  
 Ammonia  
 Bases  
 halogens  
 inorganic materials  
 Oxidizing agents  
 sodium  
 strong alkalis  
 Sulphur compounds

**10.6 Hazardous decomposition products**

Hazardous decomposition products : No hazardous decomposition products are known.

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**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.

**Product:**

Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg  
 Method: Calculation method

**Components:**
**ETHANOL:**

Acute oral toxicity : LD50 (Rat): 7.060 mg/kg  
 Acute inhalation toxicity : LC50 (Rat): 117 - 125 mg/l  
 Exposure time: 4 h  
 Test atmosphere: vapour


**SAFETY DATA SHEET**

Revision Date: 28.02.2019

Print Date: 12.09.2022

SDS Number: 00000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0

760436

Acute dermal toxicity : LD Lo (Rabbit): 20 g/kg

**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

LD50 (Rat): 3.260 mg/kg

Application Route: Intravenous

**Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

**Product:**

Remarks: May cause skin irritation in susceptible persons.

Result: Repeated exposure may cause skin dryness or cracking.

**Components:**
**ETHANOL:**

Result: Slight, transient irritation

**ETHYLENE GLYCOL:**

Species: Rabbit

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.


**SAFETY DATA SHEET**

Revision Date: 28.02.2019

Print Date: 12.09.2022

SDS Number: 000000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0

760436

**Components:**
**ETHANOL:**
Result: **Irritating to eyes.**
**ETHYLENE GLYCOL:**
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:**
**ETHYLENE GLYCOL:**
Test Type: **Maximisation Test**Species: **Guinea pig**Assessment: **Does not cause skin sensitisation.**
**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**

**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.**
**Aspiration toxicity**

Not classified based on available information.


**SAFETY DATA SHEET**

Revision Date: 28.02.2019

Print Date: 12.09.2022

SDS Number: 000000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0

760436

**Further information**
**Product:**

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

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

Toxicity to fish	: LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 12.000 - 16.000 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	: EC50 ( <i>Daphnia magna</i> (Water flea)): > 10.000 mg/l Exposure time: 48 h Test Type: static test

**Ethanediol**

Toxicity to fish	: LC50 ( <i>Lepomis macrochirus</i> (Bluegill sunfish)): 27.540 mg/l Exposure time: 96 h Test Type: static test
	: LC50 ( <i>Pimephales promelas</i> (fathead minnow)): 8.050 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: LC50 ( <i>Daphnia magna</i> (Water flea)): > 10.000 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae	: EC50 ( <i>Pseudokirchneriella subcapitata</i> (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: <i>Pimephales promelas</i> (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 24.000 mg/l Exposure time: 7 d Species: <i>Daphnia magna</i> (Water flea)


**SAFETY DATA SHEET**

Revision Date: 28.02.2019

Print Date: 12.09.2022

SDS Number: 00000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0

760436

## 12.2 Persistence and degradability

### Components:

Ethanediol

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

## 12.3 Bioaccumulative potential

### Components:

Ethanol

Partition coefficient: n-octanol/water : log Pow: **-0,31**

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**

## 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 : No data available

## SECTION 13: Disposal considerations

		Page: 14
<b>SAFETY DATA SHEET</b>		Revision Date: 28.02.2019
		Print Date: 12.09.2022
		SDS Number: 000000184480
Valvoline™ VAL SCREENWASHER CONC SCREEN WASH		Version: 3.0
760436		

### 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.  
Do not burn, or use a cutting torch on, the empty drum.

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## SECTION 14: Transport information

### 14.1 UN number

- ADN : UN 1987  
ADR : UN 1987  
RID : UN 1987  
IMDG : UN 1987  
IATA : UN 1987

### 14.2 UN proper shipping name

- ADN : ALCOHOLS, N.O.S.  
(, ISOPROPANOL)  
ADR : ALCOHOLS, N.O.S.  
(, ISOPROPANOL)  
RID : ALCOHOLS, N.O.S.  
(, ISOPROPANOL)  
IMDG : ALCOHOLS, N.O.S.  
(, ISOPROPANOL)  
IATA : Alcohols, n.o.s.  
(, ISOPROPANOL)

### 14.3 Transport hazard class(es)

- ADN : 3  
ADR : 3  
RID : 3  
IMDG : 3  
IATA : 3


**SAFETY DATA SHEET**

Revision Date: 28.02.2019

Print Date: 12.09.2022

SDS Number: 000000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0

760436

**14.4 Packing group**
**ADN**

Packing group : III  
 Classification Code : F1  
 Hazard Identification Number : 30  
 Labels : 3

**ADR**

Packing group : III  
 Classification Code : F1  
 Hazard Identification Number : 30  
 Labels : 3  
 Tunnel restriction code : (D/E)

**RID**

Packing group : III  
 Classification Code : F1  
 Hazard Identification Number : 30  
 Labels : 3

**IMDG**

Packing group : III  
 Labels : 3  
 EmS Code : F-E, S-D

**IATA (Cargo)**

Packing instruction (cargo aircraft) : 366  
 Packing instruction (LQ) : Y344  
 Packing group : III  
 Labels : Flammable Liquid

**IATA (Passenger)**

Packing instruction (passenger aircraft) : 355  
 Packing instruction (LQ) : Y344  
 Packing group : III  
 Labels : Flammable Liquid

**14.5 Environmental hazards**
**ADN**

Environmentally hazardous : no

**ADR**


Environmentally hazardous : no

**RID**

Environmentally hazardous : no

**IMDG**

Marine pollutant : no

		Page: 16
<b>SAFETY DATA SHEET</b>		Revision Date: 28.02.2019
		Print Date: 12.09.2022
Valvoline™ VAL SCREENWASHER CONC SCREEN WASH		SDS Number: 000000184480
760436		Version: 3.0

#### 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

#### 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 59). : 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.

P5c	FLAMMABLE LIQUIDS	Quantity 1 5.000 t	Quantity 2 50.000 t
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according to Detergents Regulation EC 648/2004 : less than 5 %: Anionic surfactants, Perfumes

**The components of this product are reported in the following inventories:**




**SAFETY DATA SHEET**

Revision Date: 28.02.2019

Print Date: 12.09.2022

SDS Number: 000000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0

760436

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

**Inventories**

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

**15.2 Chemical safety assessment**

No data available

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**SECTION 16: Other information**
**Further information**

Revision Date: 28.02.2019

**Full text of H-Statements**

H225	Highly flammable liquid and vapour.
<b>H302</b>	Harmful if swallowed.
H319	Causes serious eye irritation.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure if swallowed.

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: 28.02.2019

Print Date: 12.09.2022

SDS Number: 00000184480

Valvoline™ VAL SCREENWASHER CONC SCREEN WASH

Version: 3.0


760436

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: 19
<b>SAFETY DATA SHEET</b>	Revision Date: 28.02.2019
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Valvoline™ VAL SCREENWASHER CONC SCREEN WASH 760436	Version: 3.0

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