



# WOLF WINDSCREEN CONCENTRATE

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 09/12/2014 Revision date: 17/05/2023 Supersedes version of: 27/10/2020 Version: 3.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : WOLF WINDSCREEN CONCENTRATE  
UFI : CQVS-NN7Y-FN4U-RR6A  
Product code : 50200  
Type of product :  
Product group : Blend

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use  
Industrial/Professional use spec : Wide dispersive use  
Function or use category : Cleaning/washing agents and additives

##### 1.2.2. Uses advised against

No additional information available

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

WOLF OIL CORPORATION N.V.  
Georges Gilliotstraat, 52  
2620 Hemiksem – Antwerpen  
België  
T 0032 (0)3 870 00 00 - F 0032 (0)3 870 00 99  
[msds@wolfoil.com](mailto:msds@wolfoil.com) - <https://www.wolflubes.com/>

#### 1.4. Emergency telephone number

Emergency number : 0032 (0)3 870 00 00

| Country | Organisation/Company  | Address                                 | Emergency number   | Comment |
|---------|---|---|--|---------|
| Ireland | National Poisons Information Centre<br>Beaumont Hospital      | PO Box 1297<br>Beaumont Road<br>9       | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |         |
| Israel  | Israel Poison Information Center<br>Rambam Health Care Campus | 6 Ha'Aliya Street<br>31096              | +972 4 854 1900  |         |
| Malta   | Medicines & Poisons Info Office                               | Mater Dei Hospital<br>Msida<br>MSD 2090 | +356 2545 6508   |         |
| Sweden  | Giftinformationscentralen                                     | Box 60 500<br>171 76 Stockholm          | 112 – begär<br>Giftinformation<br>+46 10 456 6700 (Från<br>utlandet)                                   |         |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226  
Full text of H- and EUH-statements: see section 16

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### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
P102 - Keep out of reach of children.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .

## 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name       | Product identifier   | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP]         |
|------------|--|----------|---|
| Ethanol    | CAS-No.: 64-17-5<br>EC-No.: 200-578-6<br>EC Index-No.: 603-002-00-5<br>REACH-no: 01-2119457610-43  | 50 – 75  | Flam. Liq. 2, H225  |
| ethanediol | CAS-No.: 107-21-1<br>EC-No.: 203-473-3<br>EC Index-No.: 603-027-00-1<br>REACH-no: 01-2119456816-28 | 2.5 – 10 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)<br>STOT RE 2, H373 |

Full text of H- and EUH-statements: see section 16

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : Allow affected person to breathe fresh air. If you feel unwell, seek medical advice.  |
| First-aid measures after skin contact | : Wash with plenty of water/....  |
| First-aid measures after eye contact  | : Contact lenses should be removed. In case of eye contact, immediately rinse with clean water for 10-15 minutes.                     |
| First-aid measures after ingestion    | : Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. Do not induce vomiting. |

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

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : Not expected to present a significant inhalation hazard under anticipated conditions of normal use. |
| Symptoms/effects after skin contact | : Not expected to present a significant skin hazard under anticipated conditions of normal use.       |
| Symptoms/effects after eye contact  | : Redness. May cause slight irritation.   |
| Symptoms/effects after ingestion    | : Ingestion may cause nausea, vomiting and diarrhea.  |

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                              |  |
|------------------------------|--|
| Suitable extinguishing media | : Water fog. Foam. Powder. Dry chemical product. |
|------------------------------|--|

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

No additional information available

#### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Precautionary measures fire    | : Exercise caution when fighting any chemical fire.   |
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers.  |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | : Wear suitable protective clothing and gloves. |
|----------------------|---|

##### 6.1.2. For emergency responders

|                      |   |
|----------------------|---|
| Protective equipment | : Wear suitable protective clothing and gloves. |
|----------------------|---|

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

|                         |   |
|-------------------------|---|
| For containment         | : Impound and recover large spill by mixing it with inert granular solids.            |
| Methods for cleaning up | : Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr. |
| Other information       | : Spill area may be slippery. Use suitable disposal containers.                       |

#### 6.4. Reference to other sections

No additional information available

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. Remove ignition sources. No open flames. No smoking. Do not breathe vapours. Avoid: acids. Moisture. combustible materials. Take precautionary measures against static discharges.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

- Storage conditions : Avoid ignition sources. Keep container tightly closed.
- Storage temperature : < 40 °C
- Information on mixed storage : Food. Exclude sources of heat, sparks and open flame. Electrostatic charge. Oxidizing substances.
- Storage area : Store in dry, cool, well-ventilated area.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

###### Ethanol (64-17-5)

###### EU - Indicative Occupational Exposure Limit (IOEL)

|           |                                |
|-----------|--------------------------------|
| IOEL TWA  | 260 mg/m <sup>3</sup> @8h      |
| IOEL STEL | 1900 mg/m <sup>3</sup> @15 min |

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

No additional information available

##### 8.2.2. Personal protection equipment

###### Personal protective equipment:

Safety glasses. Gloves.

###### Personal protective equipment symbol(s):



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### 8.2.2.1. Eye and face protection

#### Eye protection:

Standard EN 166 - Personal eye-protection.

### 8.2.2.2. Skin protection

#### Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

#### Hand protection:

Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR) /

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Gas mask with filter type A

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                     |
|---|---------------------|
| Physical state                                  | : Liquid            |
| Colour  | : Blue.             |
| Appearance                                      | : Liquid.           |
| Odour   | : lemon-like.       |
| Odour threshold                                 | : Not available     |
| Melting point                                   | : Not available     |
| Freezing point                                  | : Not available     |
| Boiling point                                   | : 84 °C             |
| Flammability                                    | : Not available     |
| Explosive limits                                | : Not available     |
| Lower explosion limit                           | : Not available     |
| Upper explosion limit                           | : Not available     |
| Flash point                                     | : 23 °C             |
| Auto-ignition temperature                       | : 400               |
| Decomposition temperature                       | : Not available     |
| pH  | : 6.5 – 9.5         |
| Viscosity, kinematic                            | : Not available     |
| Solubility                                      | : Complete.         |
| Partition coefficient n-octanol/water (Log Kow) | : Not available     |
| Vapour pressure                                 | : 44.46 hPa @ 20°C  |
| Vapour pressure at 50°C                         | : 214.92 hPa @ 50°C |
| Density   | : 891 kg/m³ @20°C   |
| Relative density                                | : 0.851 @20°C       |
| Relative vapour density at 20°C                 | : Not available     |
| Particle characteristics                        | : Not applicable    |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

|  |        |
|--|--------|
| Relative evaporation rate (butylacetate=1) | : 2    |
| VOC content                                | : 60 % |

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

None under normal conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

None under normal conditions.

#### 10.4. Conditions to avoid

Open flame. Heat. Electrostatic charge.

#### 10.5. Incompatible materials

Oxidizing substances.

#### 10.6. Hazardous decomposition products

Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

##### ethanediol (107-21-1)

|                       |              |
|-----------------------|--------------|
| LD50 oral rat         | 500 mg/kg    |
| LD50 dermal rat       | 10600 mg/kg  |
| LD50 dermal rabbit    | > 5000 mg/kg |
| LC50 Inhalation - Rat | ≥ 50 mg/l/4h |

##### Ethanol (64-17-5)

|                       |              |
|-----------------------|--------------|
| LD50 oral rat         | ≥ 5000 mg/kg |
| LD50 dermal rabbit    | ≥ 5000 mg/kg |
| LC50 Inhalation - Rat | ≥ 50 mg/l/4h |

Skin corrosion/irritation : Not classified  
pH: 6.5 – 9.5  
Serious eye damage/irritation : Not classified  
pH: 6.5 – 9.5  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

##### ethanediol (107-21-1)

|   |                       |
|---|-----------------------|
| NOAEL (chronic, oral, animal/male, 2 years)   | 1000 mg/kg bodyweight |
| NOAEL (chronic, oral, animal/female, 2 years) | 1500 mg/kg bodyweight |

Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified

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### ethanediol (107-21-1)

|                                     |  |
|-------------------------------------|--|
| NOAEL (oral, rat, 90 days)          | 220200 mg/kg bodyweight/day OECD 407                               |
| NOAEL (dermal, rat/rabbit, 90 days) | 2220 mg/kg bodyweight/day OECD 410                                 |
| STOT-repeated exposure              | May cause damage to organs through prolonged or repeated exposure. |

Aspiration hazard : Not classified

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

### ethanediol (107-21-1)

|                      |  |
|----------------------|--|
| LC50 - Fish [1]      | 41000 mg/l @96h - Oncorhynchus mykiss            |
| LC50 - Fish [2]      | 14 – 18 ml/l @96h - Oncorhynchus mykiss (static) |
| EC50 - Crustacea [1] | 46300 mg/l @48h - Daphnia magna                  |
| NOEC chronic fish    | 15380 mg/l @ 7d - Pimephales promelas            |

### Ethanol (64-17-5)

|                                    |  |
|------------------------------------|--|
| LC50 - Fish [1]                    | 11000 mg/l @ Alburnus alburnus           |
| LC50 - Fish [2]                    | 13000 mg/l @ Oncorhynchus mykiss         |
| EC50 - Crustacea [1]               | 9268 mg/l @ Daphnia magna                |
| EC50 - Crustacea [2]               | 12340 mg/l @ Daphnia magna               |
| EC50 - Other aquatic organisms [1] | 1450 mg/l @192h (Mycrocystis aeruginosa) |
| EC50 72h - Algae [1]               | 275 mg/l @ Chlorella vulgaris            |

### 12.2. Persistence and degradability

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|                               |  |
|-------------------------------|--|
| Persistence and degradability | Not soluble in water, so only minimally biodegradable. |
|-------------------------------|--|

### ethanediol (107-21-1)

|                                 |                                    |
|---------------------------------|------------------------------------|
| Biochemical oxygen demand (BOD) | 0.47 g O <sub>2</sub> /g substance |
| Chemical oxygen demand (COD)    | 1.29 g O <sub>2</sub> /g substance |
| Biodegradation                  | 90 %                               |

### Ethanol (64-17-5)

|                |      |
|----------------|------|
| Biodegradation | 89 % |
|----------------|------|

### 12.3. Bioaccumulative potential

### ethanediol (107-21-1)

|                                     |    |
|-------------------------------------|----|
| Bioconcentration factor (BCF REACH) | 10 |
|-------------------------------------|----|

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### ethanediol (107-21-1)

|   |       |
|---|-------|
| Partition coefficient n-octanol/water (Log Pow) | -1.36 |
|---|-------|

### Ethanol (64-17-5)

|   |       |
|---|-------|
| Bioconcentration factor (BCF REACH)             | 3     |
| Partition coefficient n-octanol/water (Log Pow) | -0.35 |

## 12.4. Mobility in soil

### ethanediol (107-21-1)

|                 |                 |
|-----------------|-----------------|
| Surface tension | 49890 N/m @25°C |
|-----------------|-----------------|

### Ethanol (64-17-5)

|  |                 |
|--|-----------------|
| Surface tension  | 23390 N/m @25°C |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1               |

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Additional information : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 1170 |
| UN-No. (IMDG) | : UN 1170 |
| UN-No. (IATA) | : UN 1170 |
| UN-No. (ADN)  | : UN 1170 |
| UN-No. (RID)  | : UN 1170 |

### 14.2. UN proper shipping name

|                                       |  |
|---------------------------------------|--|
| Proper Shipping Name (ADR)            | : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)                        |
| Proper Shipping Name (IMDG)           | : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)                        |
| Proper Shipping Name (IATA)           | : Ethyl alcohol solution   |
| Proper Shipping Name (ADN)            | : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)                        |
| Proper Shipping Name (RID)            | : Not applicable   |
| Transport document description (ADR)  | : UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III, (D/E) |
| Transport document description (IMDG) | : UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III        |
| Transport document description (IATA) | : UN 1170 Ethyl alcohol solution, 3, III                           |
| Transport document description (ADN)  | : UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III        |
| Transport document description (RID)  | : UN 1170 , 3  |



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### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 3  
Danger labels (ADR) : 3  
:



#### IMDG

Transport hazard class(es) (IMDG) : 3  
Danger labels (IMDG) : 3  
:



#### IATA

Transport hazard class(es) (IATA) : 3  
Danger labels (IATA) : 3  
:



#### ADN

Transport hazard class(es) (ADN) : 3  
Danger labels (ADN) : 3  
:



#### RID

Transport hazard class(es) (RID) : 3  
Danger labels (RID) : 3  
:



### 14.4. Packing group

Packing group (ADR) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III  
Packing group (ADN) : III  
Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

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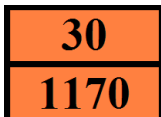
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### 14.6. Special precautions for user

#### Overland transport

|   |            |
|---|------------|
| Classification code (ADR)                 | : F1       |
| Special provisions (ADR)                  | : 144, 601 |
| Limited quantities (ADR)                  | : 5I       |
| Excepted quantities (ADR)                 | : E1       |
| Vehicle for tank carriage                 | : FL       |
| Transport category (ADR)                  | : 3        |
| Hazard identification number (Kemler No.) | : 30       |
| Orange plates                             | :          |



|                               |       |
|-------------------------------|-------|
| Tunnel restriction code (ADR) | : D/E |
| EAC code                      | : •2Y |

#### Transport by sea

|                                    |   |
|------------------------------------|---|
| Special provisions (IMDG)          | : 144, 223  |
| Limited quantities (IMDG)          | : 5 L   |
| Excepted quantities (IMDG)         | : E1  |
| Packing instructions (IMDG)        | : P001, LP01  |
| IBC packing instructions (IMDG)    | : IBC03   |
| Tank instructions (IMDG)           | : T2  |
| Tank special provisions (IMDG)     | : TP1   |
| EmS-No. (Fire)                     | : F-E   |
| EmS-No. (Spillage)                 | : S-D   |
| Stowage category (IMDG)            | : A   |
| Properties and observations (IMDG) | : Colourless, volatile liquids. Pure ETHANOL: flashpoint 13°C c.c. Explosive limits: 3.3% to 19% Miscible with water. |

#### Air transport

|  |                 |
|--|-----------------|
| PCA Excepted quantities (IATA)               | : E1            |
| PCA Limited quantities (IATA)                | : Y344          |
| PCA limited quantity max net quantity (IATA) | : 10L           |
| PCA packing instructions (IATA)              | : 355           |
| PCA max net quantity (IATA)                  | : 60L           |
| CAO packing instructions (IATA)              | : 366           |
| CAO max net quantity (IATA)                  | : 220L          |
| Special provisions (IATA)                    | : A3, A58, A180 |
| ERG code (IATA)                              | : 3L            |

#### Inland waterway transport

|                                   |             |
|-----------------------------------|-------------|
| Classification code (ADN)         | : F1        |
| Special provisions (ADN)          | : 144, 601  |
| Limited quantities (ADN)          | : 5 L       |
| Excepted quantities (ADN)         | : E1        |
| Carriage permitted (ADN)          | : T         |
| Equipment required (ADN)          | : PP, EX, A |
| Ventilation (ADN)                 | : VE01      |
| Number of blue cones/lights (ADN) | : 0         |

#### Rail transport

No data available

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

Other information, restriction and prohibition regulations : Regulation (EC) No. 648/2004 of 31 March 2004 on detergents. Contains : <5 %. anionic surfactants. perfumes:

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### VOC Directive (2004/42)

VOC content : 60 %

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

##### France

| Occupational diseases |   |
|-----------------------|---|
| Code                  | Description   |
| RG 84                 | Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide |

##### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).  
Storage class (LGK, TRGS 510) : LGK 3 - Flammable liquids.  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : Ethanol is listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : Ethanol is listed  
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : Ethanol is listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : Ethanol is listed

##### Denmark

Class for fire hazard : Class II-1

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|                             |  |
|-----------------------------|--|
| Store unit                  | : 5 liter  |
| Classification remarks      | : R10 <H226>; Emergency management guidelines for the storage of flammable liquids must be followed    |
| Danish National Regulations | : Pregnant/breastfeeding women working with the product must not be in direct contact with the product |

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

## SECTION 16: Other information

| Indication of changes |   |          |          |
|-----------------------|---|----------|----------|
| Section               | Changed item  | Change   | Comments |
|                       | Limited quantities (ADN)                                  | Added    |          |
|                       | Excepted quantities (ADN)                                 | Added    |          |
|                       | Number of blue cones/lights (ADN)                         | Added    |          |
|                       | UN-No. (RID)  | Added    |          |
|                       | Properties and observations (IMDG)                        | Added    |          |
|                       | Special provisions for carriage - Packages (ADR)          | Added    |          |
|                       | Special provisions for carriage – Packages (RID)          | Added    |          |
|                       | Revision date   | Modified |          |
|                       | Supersedes  | Modified |          |
|                       | Proper Shipping Name (RID)                                | Added    |          |
|                       | Hazard identification number (RID)                        | Added    |          |
|                       | Colis express (express parcels) (RID)                     | Added    |          |
|                       | Transport category (RID)                                  | Added    |          |
|                       | Portable tank and bulk container special provisions (RID) | Added    |          |
|                       | Portable tank and bulk container instructions (RID)       | Added    |          |
|                       | Packing instructions (RID)                                | Added    |          |
|                       | Excepted quantities (RID)                                 | Added    |          |
|                       | Limited quantities (RID)                                  | Added    |          |
|                       | Special provisions (RID)                                  | Added    |          |
|                       | Packing group (RID)                                       | Added    |          |
|                       | Special provisions for carriage - Operation (ADR)         | Added    |          |
|                       | Portable tank and bulk container special provisions (ADR) | Added    |          |
|                       | Portable tank and bulk container instructions (ADR)       | Added    |          |
|                       | Packing instructions (ADR)                                | Added    |          |
|                       | Special provisions (IATA)                                 | Modified |          |

# WOLF WINDSCREEN CONCENTRATE

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Indication of changes |   |          |          |
|-----------------------|---|----------|----------|
| Section               | Changed item  | Change   | Comments |
|                       | Proper Shipping Name (IATA)                                     | Modified |          |
|                       | Tank special provisions (IMDG)                                  | Modified |          |
|                       | Tank instructions (IMDG)  | Modified |          |
|                       | Special provisions (IMDG)                                       | Modified |          |
|                       | Proper Shipping Name (IMDG)                                     | Modified |          |
|                       | Ventilation (ADN)   | Added    |          |
|                       | Equipment required (ADN)  | Added    |          |
|                       | Carriage permitted (ADN)  | Added    |          |
|                       | Danger labels (ADN)   | Added    |          |
|                       | Classification code (ADN)                                       | Added    |          |
|                       | Tank codes for RID tanks (RID)                                  | Added    |          |
|                       | Mixed packing provisions (RID)                                  | Added    |          |
|                       | Classification code (RID)                                       | Added    |          |
|                       | Tank code (ADR)   | Added    |          |
|                       | Mixed packing provisions (ADR)                                  | Added    |          |
|                       | Vehicle for tank carriage                                       | Added    |          |
|                       | Danger labels (IMDG)  | Added    |          |
|                       | Danger labels (IATA)  | Added    |          |
| 2.1                   | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified |          |
| 2.2                   | Precautionary statements (CLP)                                  | Modified |          |
| 2.2                   | Signal word (CLP)   | Modified |          |
| 2.2                   | Hazard pictograms (CLP)   | Modified |          |
| 2.2                   | Hazard statements (CLP)   | Modified |          |
| 3                     | Composition/information on ingredients                          | Modified |          |
| 5.3                   | EAC code  | Added    |          |
| 9.1                   | Relative density  | Modified |          |
| 9.1                   | Density   | Modified |          |
| 9.1                   | Boiling point   | Modified |          |
| 9.1                   | Viscosity, kinematic  | Added    |          |
| 9.1                   | Viscosity, dynamic  | Added    |          |
| 9.1                   | Relative evaporation rate (butylacetate=1)                      | Added    |          |
| 9.2                   | VOC content   | Modified |          |
| 11.1                  | ATE CLP (dust,mist)   | Added    |          |
| 11.1                  | ATE CLP (dermal)  | Modified |          |
| 11.1                  | ATE CLP (oral)  | Modified |          |
| 14.1                  | UN-No. (ADN)  | Added    |          |
| 14.1                  | UN-No. (IATA)   | Modified |          |

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| Indication of changes |   |          |          |
|-----------------------|---|----------|----------|
| Section               | Changed item                              | Change   | Comments |
| 14.1                  | UN-No. (IMDG)                             | Modified |          |
| 14.1                  | UN-No. (ADR)                              | Modified |          |
| 14.2                  | Proper Shipping Name (ADN)                | Added    |          |
| 14.2                  | Proper Shipping Name (ADR)                | Modified |          |
| 14.3                  | Danger labels (RID)                       | Added    |          |
| 14.4                  | Packing group (ADN)                       | Added    |          |
| 14.6                  | Special provisions (ADN)                  | Added    |          |
| 14.6                  | Transport category (ADR)                  | Added    |          |
| 14.6                  | Excepted quantities (ADR)                 | Added    |          |
| 14.6                  | Hazard identification number (Kemler No.) | Added    |          |
| 14.6                  | Special provisions (ADR)                  | Modified |          |
| 14.6                  | Classification code (ADR)                 | Added    |          |
| 15.1                  | Storage class (LGK, TRGS 510)             | Added    |          |
| 15.1                  | Water hazard class (WGK)                  | Added    |          |
| 15.1                  | VOC content                               | Modified |          |

| Abbreviations and acronyms: |  |
|-----------------------------|--|
|                             | ACGIH: American Conference of Governmental Industrial Hygienists   |
|                             | TWA: Time Weighted Average   |
|                             | TLV: Threshold Limit Value   |
|                             | ASTM: American Society for Testing and Materials   |
|                             | ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route                       |
|                             | RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail                                    |
|                             | ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin |
|                             | IMDG: International Maritime Dangerous Goods   |
|                             | ICAO: International Civil Aviation Organization  |
|                             | IATA: International Air Transport Association  |
|                             | STEL: Short Term Exposure Limit  |
|                             | LD50: median Lethal Dose for 50% of subjects   |
|                             | ATE: acute toxicity estimate   |
|                             | LC50: median Lethal Concentration for 50% of subjects  |
|                             | EC50: concentration producing 50% effect   |

# WOLF WINDSCREEN CONCENTRATE

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Other information

: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                  |
| Flam. Liq. 2                        | Flammable liquids, Category 2                                      |
| H225                                | Highly flammable liquid and vapour.                                |
| H226                                | Flammable liquid and vapour.                                       |
| H302                                | Harmful if swallowed.  |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2     |

### Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.