

WOLF WINDSCREEN CONCENTRATE

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 09/12/2014

Revision date: 05/08/2015

Supersedes: 14/07/2015

Version: 2.1

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

1.1. Product identifier

Product form : Mixture
Product name. : WOLF WINDSCREEN CONCENTRATE
Product code : 50200
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 - België
T 0032 (0)3 870 00 00 / 0476/23 33 14
info@wolfoil.com

1.4. Emergency telephone number

Emergency number : 0032 (0)70 245 245

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 3 H226

Eye Irrit. 2 H319

Full text of H-phrases: see section 16

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

GHS07

Signal word (CLP) : Danger.

Hazard statements (CLP) : H226 - Flammable liquid and vapour
H319 - Causes serious eye irritation

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P210 - Keep away from hot surfaces, open flames, sparks, heat. - No smoking
P280 - Wear eye protection
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

2.3. Other hazards

No additional information available

WOLF WINDSCREEN CONCENTRATE

Safety Data Sheet

according to Regulation (EC) No. 453/2010

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Ethanol	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5 (REACH-no) 01-2119457610-43	50 - 75	F; R11
ethanediol	(CAS No) 107-21-1 (EC no) 203-473-3 (EC index no) 603-027-00-1 (REACH-no) 01-2119456816-28	2,5 - 10	Xn; R22

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethanol	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5 (REACH-no) 01-2119457610-43	50 - 75	Flam. Liq. 2, H225 Eye Irrit. 2, H319
ethanediol	(CAS No) 107-21-1 (EC no) 203-473-3 (EC index no) 603-027-00-1 (REACH-no) 01-2119456816-28	2,5 - 10	Acute Tox. 4 (Oral), H302 STOT RE 2, H373

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Assure fresh air breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of soap and 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/injuries after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/injuries after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/injuries after eye contact	: Redness. May cause slight irritation.
Symptoms/injuries 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.
----------------------	---

WOLF WINDSCREEN CONCENTRATE

Safety Data Sheet

according to Regulation (EC) No. 453/2010

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

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 naked lights. No smoking. Do not breathe vapours. Avoid : acids. Moisture. Combustible material. Take precautionary measures against static discharges.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke 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
Prohibitions on mixed storage : Food. Exclude sources of heat, sparks and open flame. Electrostatic charge.
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

Ethanol (64-17-5)		
EU	IOELV TWA (mg/m ³)	260 mg/m ³ @8h
EU	IOELV STEL (mg/m ³)	1900 mg/m ³ @15 min

8.2. Exposure controls

Personal protective equipment : Safety glasses. Gloves.



Hand protection : Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR) / .
Eye protection : Standard EN 166 - Personal eye-protection.
Skin and body protection : No special clothing/skin protection equipment is recommended under normal conditions of use.
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Gas mask with filter type A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Colour : Blue.
Odour : lemon-like.
Odour threshold : No data available
pH : 6,5 - 9,5
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : ≥ 84 °C
Flash point : 23 °C
Self ignition temperature : 400

WOLF WINDSCREEN CONCENTRATE

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 44,46 hPa @ 20°C
Vapour pressure at 50 °C	: 214,92 hPa @ 50°C
Relative vapour density at 20 °C	: No data available
Relative density	: 0,851
Density	: 886 kg/m ³ @20°C
Solubility	: Complete.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 70 %
-------------	--------

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

No additional information available

10.6. Hazardous decomposition products

Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
----------------	------------------

WOLF WINDSCREEN CONCENTRATE	
LD50 oral rat	7060 mg/kg (ethanol)
LD50 dermal rat	38400 mg/m ³ /10h (ethanol)
LD50 dermal rabbit	> 20000 mg/kg (ethanol)
ATE (oral)	7060,000 mg/kg bodyweight
ATE (dermal)	38400,000 mg/kg bodyweight

ethanediol (107-21-1)	
LD50 oral rat	500 mg/kg

Skin corrosion/irritation	: Not classified pH: 6,5 - 9,5
Serious eye damage/irritation	: Causes serious eye irritation. pH: 6,5 - 9,5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

WOLF WINDSCREEN CONCENTRATE

Safety Data Sheet

according to Regulation (EC) No. 453/2010

SECTION 12: Ecological information

12.1. Toxicity

WOLF WINDSCREEN CONCENTRATE	
LC50 fishes 1	1300 mg/dm ³ /96h - <i>Salmo gairdneri</i> (Ethanol)
ethanediol (107-21-1)	
LC50 fishes 1	53000 mg/l @96h - <i>Pimephales promelas</i>
EC50 Daphnia 1	51000 mg/l @48h - <i>Daphnia magna</i>
EC50 other aquatic organisms 1	24000 mg/l @168h - <i>Selenastrum capricornutum</i>
Ethanol (64-17-5)	
LC50 fishes 1	11000 mg/l @96h (<i>Alburnus alburnus</i>)
EC50 Daphnia 1	9268 mg/l @48h (<i>Daphnia magna</i>)
EC50 other aquatic organisms 1	1450 mg/l @192h (<i>Mycrocystis aeruginosa</i>)

12.2. Persistence and degradability

WOLF WINDSCREEN CONCENTRATE	
Persistence and degradability	Not soluble in water, so only minimally biodegradable.
ethanediol (107-21-1)	
Biochemical oxygen demand (BOD)	0,47 g O ₂ /g substance
Chemical oxygen demand (COD)	1,29 g O ₂ /g substance
Biodegradation	90 %
Ethanol (64-17-5)	
Biodegradation	89 %

12.3. Bioaccumulative potential

ethanediol (107-21-1)	
Bioconcentration factor (BCF REACH)	10
Log Pow	-1,36
Ethanol (64-17-5)	
Bioconcentration factor (BCF REACH)	3
Log Pow	-0,31

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
Log Koc	1

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. 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 / RID / ADN / IMDG / ICAO / IATA

14.1. UN number

UN-No. : 1987
UN-No.(IATA) : 1987
UN-No. (IMDG) : 1987

14.2. UN proper shipping name

Proper Shipping Name : ALCOHOLS n.o.s. (mixture contains ethanol)
Proper Shipping Name (IATA) : ALCOHOLS, N.O.S.

WOLF WINDSCREEN CONCENTRATE

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Proper Shipping Name (IMDG)	: ALCOHOLS n.o.s. (mixture contains ethanol)
Transport document description	: UN 1987 ALCOHOLS n.o.s. (mixture contains ethanol), 3, III, (D/E)

14.3. Transport hazard class(es)

Class (UN)	: 3
Hazard labels (UN)	: 3



14.4. Packing group

Packing group (UN)	: III
Packing group (IATA)	: III
Packing group (IMDG)	: III

14.5. Environmental hazards

Other information	: No supplementary information available.
-------------------	---

14.6. Special precautions for user

14.6.1. Overland transport

Special provision (ADR)	: 274
Tunnel restriction code	: D/E
Limited quantities (ADR)	: 5L
LQ	: LQ07

14.6.2. Transport by sea

Special provision (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: A

14.6.3. Air transport

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

14.6.4. Inland waterway transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions	
Contains no REACH candidate substance	
VOC content	: 70 %
Other regulations, restrictions and prohibition regulations	: Regulation (CE) No. 648/2004 of 31 March 2004 on detergents: Contains : <5 % anionic surfactants. perfumes.

WOLF WINDSCREEN CONCENTRATE

Safety Data Sheet

according to Regulation (EC) No. 453/2010

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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.

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 R-, H- and EUH-phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated exposure
R11	Highly flammable
R22	Harmful if swallowed
F	Highly flammable
Xn	Harmful

SDS EU (REACH Annex II)

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.