

WOLF WINDSCREEN -22°C READY TO USE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Date of issue:23/01/2015 Revision date:11/04/2016

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 -22°C READY TO USE
Product code : 50210
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 - F 0032 (0)3 870 00 99
info@wolfoil.com

1.4. Emergency telephone number

Emergency number : +32 14 58 45 45 (NL/EN/FR/DE)

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 statements : see section 16

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) : 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
P302+P350 - IF ON SKIN: Gently wash with plenty of soap and water
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations
Child-resistant fastening : No
Tactile warning : No

2.3. Other hazards

No additional information available

WOLF WINDSCREEN -22°C READY TO USE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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	10 - 24,99	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	1 - 2,49	Acute Tox. 4 (Oral), H302 STOT RE 2, H373

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Allow breathing of fresh air. 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.
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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.
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6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing and gloves.
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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.

WOLF WINDSCREEN -22°C READY TO USE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

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 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 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) /
- 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



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Liquid.
- Colour : Blue.
- Odour : lemon odour.
- Odour threshold : No data available
- pH : 6 - 9
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : ≥ 92 °C
- Flash point : 27 °C
- Auto-ignition temperature : 400
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Vapour pressure : 30,93 hPa @ 20°C
- Vapour pressure at 50 °C : 156,05 hPa @ 50°C
- Relative vapour density at 20 °C : No data available
- Relative density : 0,933
- Density : 960 kg/m³ @20°C
- Solubility : Complete.
- Log Pow : No data available
- Viscosity, kinematic : No data available

WOLF WINDSCREEN -22°C READY TO USE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

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	: 35 %
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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.

10.5. Incompatible materials

Sources of ignition. Strong oxidizers.

10.6. Hazardous decomposition products

Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
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WOLF WINDSCREEN -22°C READY TO USE

LD50 oral rat	7060 mg/kg (ethanol)
LD50 dermal rat	38400 mg/m3/10h (ethanol)
LD50 dermal rabbit	> 20000 mg/kg (ethanol)

ethanediol (107-21-1)

LD50 oral rat	500 mg/kg
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Skin corrosion/irritation	: Not classified pH: 6 - 9
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Serious eye damage/irritation	: Not classified pH: 6 - 9
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Respiratory or skin sensitisation	: Not classified
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Germ cell mutagenicity	: Not classified
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Carcinogenicity	: Not classified
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Reproductive toxicity	: Not classified
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Specific target organ toxicity (single exposure)	: Not classified
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Specific target organ toxicity (repeated exposure)	: Not classified
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Aspiration hazard	: Not classified
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SECTION 12: Ecological information

12.1. Toxicity

WOLF WINDSCREEN -22°C READY TO USE

LC50 fish 1	1300 mg/dm³/96h - Salmo gairdneri (Ethanol)
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ethanediol (107-21-1)

LC50 fish 1	53000 mg/l @96h - Pimephales promelas
EC50 Daphnia 1	51000 mg/l @48h - Daphnia magna
EC50 other aquatic organisms 1	24000 mg/l @168h - Selenastrum capricornutum

Ethanol (64-17-5)

LC50 fish 1	11000 mg/l @96h (Alburnus alburnus)
EC50 Daphnia 1	9268 mg/l @48h (Daphnia magna)
EC50 other aquatic organisms 1	1450 mg/l @192h (Mycrocystis aeruginosa)

WOLF WINDSCREEN -22°C READY TO USE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

12.2. Persistence and degradability

WOLF WINDSCREEN -22°C READY TO USE

Persistence and degradability	Not soluble in water, so only minimally biodegradable.
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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 %
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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
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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 / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: 1987
UN-No. (IMDG)	: 1987
UN-No. (IATA)	: 1987
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: ALCOHOLS n.o.s. (mixture contains ethanol)
Proper Shipping Name (IMDG)	: ALCOHOLS n.o.s. (mixture contains ethanol)
Proper Shipping Name (IATA)	: ALCOHOLS, N.O.S.
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
Transport document description (ADR)	: UN 1987 ALCOHOLS n.o.s. (mixture contains ethanol), 3, III, (D/E)
Transport document description (IMDG)	: UN 1987 ALCOHOLS n.o.s. (mixture contains ethanol), III

14.3. Transport hazard class(es)

ADR

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

WOLF WINDSCREEN -22°C READY TO USE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010



IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

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

14.5. Environmental hazards

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

14.6. Special precautions for user

- Overland transport

Special provisions (ADR) : 274
Limited quantities (ADR) : 5I
Tunnel restriction code (ADR) : D/E

- Transport by sea

Special provisions (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

- 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, A180
ERG code (IATA) : 3L

WOLF WINDSCREEN -22°C READY TO USE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

- Inland waterway transport

No data available

- Rail transport

No data 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 35 %

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

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Ethanol is listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : Ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : Ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Ethanol is listed

Denmark

Class for fire hazard : Class II-1

Store unit : 5 liter

Classification remarks : R10 <H226>; Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H225	Highly flammable liquid and vapour

WOLF WINDSCREEN -22°C READY TO USE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

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

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