

WOLF WINDSCREEN WASHER SUMMER READY TO USE

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 27/01/2015

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Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product name. : WOLF WINDSCREEN WASHER SUMMER READY TO USE
Product code : 50220
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]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
2-aminoethanol	(CAS No) 141-43-5 (EC no) 205-483-3 (EC index no) 603-030-00-8 (REACH-no) 01-2119486455-28	< 1	Xn; R20/21/22 C; R34
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-aminoethanol	(CAS No) 141-43-5 (EC no) 205-483-3 (EC index no) 603-030-00-8 (REACH-no) 01-2119486455-28	< 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314

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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 not breathing, give artificial respiration. |
| First-aid measures after skin contact | : Wash skin with mild soap and water. |
| First-aid measures after eye contact | : In case of eye contact, immediately rinse with clean water for 10-15 minutes. |
| First-aid measures after ingestion | : Do not induce vomiting. Get immediate medical advice/attention. |

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

- | | |
|--------------------------------------|---|
| Symptoms/injuries after inhalation | : None under 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 | : May cause slight irritation. |
| Symptoms/injuries after ingestion | : Ingestion may cause nausea, vomiting and diarrhea. Abdominal pain. |

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. Large quantity of water. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

- | | |
|--|--------------------|
| Hazardous decomposition products in case of fire | : Carbon monoxide. |
|--|--------------------|

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. |
| Emergency procedures | : Evacuate unnecessary personnel. |

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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|-------------------------------|---|
| Precautions for safe handling | : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. |
| 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 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

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2-aminoethanol (141-43-5)

EU	IOELV TWA (mg/m ³)	2,5 mg/m ³ @8h
EU	IOELV STEL (mg/m ³)	7,6 mg/m ³ @15 min

: Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations.

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

: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: pink.
Odour	: lemon-like.
Odour threshold	: No data available
pH	: 5 - 8
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: 0 °C
Boiling point	: 85 - 198 °C
Flash point	: > 63 °C @ ASTM D92
Self ignition temperature	: 370 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 60 kPa
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,8 - 0,999 kg/m ³
Solubility	: Complete.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 1 mPa.s @20°C
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 0,5 %

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

Reacts with : Oxidizing agent. May form flammable/explosive vapour-air mixture.

10.4. Conditions to avoid

open flames. Overheating.

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10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

2-aminoethanol (141-43-5)	
LD50 oral rat	500 mg/kg
LD50 dermal rabbit	1025 mg/kg
LC50 inhalation rat (mg/l)	11 mg/l/4h
ATE (oral)	500,000 mg/kg bodyweight
ATE (dermal)	1100,000 mg/kg bodyweight
ATE (gases)	4500,000 ppmV/4h
ATE (vapours)	11,000 mg/l/4h
ATE (dust,mist)	1,500 mg/l/4h

Skin corrosion/irritation : Not classified
pH: 5 - 8

Serious eye damage/irritation : Not classified
pH: 5 - 8

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

Potential Adverse human health effects and symptoms : May cause sensitization by inhalation and skin contact.

SECTION 12: Ecological information

12.1. Toxicity

2-aminoethanol (141-43-5)	
LC50 fishes 1	349 mg/l @96h (Cyprinus carpio)
EC50 Daphnia 1	65 mg/l
EC50 other aquatic organisms 1	22 mg/l @72h (Scenedesmus subspicatus)

12.2. Persistence and degradability

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Persistence and degradability	Prevent entry to sewers and public waters.
2-aminoethanol (141-43-5)	
Biodegradation	90 % @21d

12.3. Bioaccumulative potential

2-aminoethanol (141-43-5)	
Bioconcentration factor (BCF REACH)	3
Log Pow	-1,31

12.4. Mobility in soil

2-aminoethanol (141-43-5)	
Surface tension	50250 N/m
Log Koc	0,27

12.5. Results of PBT and vPvB assessment

No additional information available

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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 / ADNR / IMDG / ICAO / IATA

14.1. UN number

No dangerous good in sense of transport regulations

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

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 : 0,5 %

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

15.1.2. National regulations

No additional information available

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 R-, H- and EUH-phrases::

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Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Skin Corr. 1B	skin corrosion/irritation Category 1B
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R34	Causes burns
C	Corrosive
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.