

WOLF COOLANT -36°C STANDARD G11

Safety Data Sheet

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

Date of issue:8/10/2014 Revision date:18/04/2016Supersedes:13/07/2015 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 COOLANT -36°C STANDARD G11
Product code : 50100
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 : Non-dispersive use
Used in closed systems
Function or use category : Liquid for car cooling circuit

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]

Acute toxicity (oral), Category 4 H302

Specific target organ toxicity — Repeated exposure, Category 2 H373

Full text of H statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS08

Signal word (CLP) : Warning

Hazardous ingredients : ethanediol

Hazard statements (CLP) : H302 - Harmful if swallowed
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (on ingestion)

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand
P270 - Do not eat, drink or smoke when using this product
P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell
P330 - Rinse mouth
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

Child-resistant fastening : No

Tactile warning : No

WOLF COOLANT -36°C STANDARD G11

Safety Data Sheet

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

2.3. Other hazards

No additional information available

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]
ethanediol	(CAS No) 107-21-1 (EC no) 203-473-3 (EC index no) 603-027-00-1 (REACH-no) 01-2119456816-28	50 - 75	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 general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Adverse effects not expected from this product. Allow breathing of fresh air. Place the victim in semi-seated position. Seek medical advice.
First-aid measures after skin contact	: Remove contaminated clothing. Wash skin with mild soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: In case of eye contact, immediately rinse with clean water for 10-15 minutes. Contact lenses should be removed. Seek medical attention if ill effect or irritation develops.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

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	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/injuries after ingestion	: Harmful if swallowed.

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	: Foam. Dry chemical product.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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.

WOLF COOLANT -36°C STANDARD G11

Safety Data Sheet

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

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. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
- 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 open flames. No smoking. 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 temperature : 40 °C
- Prohibitions on mixed storage : Food.
- Storage area : Store in dry, cool, well-ventilated area.
- Special rules on packaging : Packaging destined for the general public must be fitted with a tactile danger indication.

7.3. Specific end use(s)

Anti-Freeze and De-icing products.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

WOLF COOLANT -36°C STANDARD G11		
EU	IOELV STEL (mg/m ³)	104 mg/m ³ @ 15 min.
EU	IOELV STEL (ppm)	40 ppm @ 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. Butyl rubber (IIR) / Polyvinylchloride (PVC) /
- Eye protection : Safety glasses. 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



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Liquid.
- Colour : Blue.
- Odour : mild. slight.
- Odour threshold : No data available
- pH : 7,5 - 9,5
- pH solution : ≥ 0
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : No data available
- Freezing point : -36 °C
- Boiling point : ≥ 133 °C
- Flash point : 111 °C
- Auto-ignition temperature : 400 °C

WOLF COOLANT -36°C STANDARD G11

Safety Data Sheet

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

Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 1,823 hPa @20°C
Vapour pressure at 50 °C	: 9,613 hPa @50°C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1071 kg/m ³ @ 20°C
Solubility	: Miscible.
Log Pow	: No data available
Viscosity, kinematic	: 1,89 cSt @20°C
Viscosity, dynamic	: 2,03 cP @20°C
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

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

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

ATE CLP (oral)	500,000 mg/kg bodyweight
----------------	--------------------------

ethanediol (107-21-1)

LD50 oral rat	500 mg/kg
---------------	-----------

Skin corrosion/irritation : Not classified
pH: 7,5 - 9,5

Serious eye damage/irritation : Not classified
pH: 7,5 - 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) : May cause damage to organs (kidneys) through prolonged or repeated exposure (on ingestion).

Aspiration hazard : Not classified

WOLF COOLANT -36°C STANDARD G11

Viscosity, kinematic	1,89 mm ² /s @20°C
----------------------	-------------------------------

Potential adverse human health effects and symptoms : Ingestion may cause nausea, vomiting and diarrhea.

WOLF COOLANT -36°C STANDARD G11

Safety Data Sheet

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

SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

WOLF COOLANT -36°C STANDARD G11	
Persistence and degradability	Prevent entry to sewers and public waters.
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 %

12.3. Bioaccumulative potential

ethanediol (107-21-1)	
Bioconcentration factor (BCF REACH)	10
Log Pow	-1,36

12.4. Mobility in soil

ethanediol (107-21-1)	
Surface tension	49890 N/m @25°C

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Presents no specific risk for the environment

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

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

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

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

WOLF COOLANT -36°C STANDARD G11

Safety Data Sheet

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

14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
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

No data available

- Transport by sea

No data available

- Air transport

No data available

- 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

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 : None of the components are listed

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

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
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

WOLF COOLANT -36°C STANDARD G11

Safety Data Sheet

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

SECTION 16: Other information

Indication of changes:

1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Label elements	Modified	
15	Chemical safety assessment	Modified	
16	Abbreviations and acronyms	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

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
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed
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