Safety Data Sheet according to Regulation (EC) No. 453/2010 Date of issue: 14/10/2014 Revision date: 13/07/2015

Supersedes: 14/10/2014

Version: 2.0

	Product identifier	
Product	form	: Mixture
Product	name.	: WOLF COOLANT -36°C LONGLIFE G13
Product	code	: 50102
Product	group	: Blend
1.2.	Relevant identified uses of the su	bstance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Main use	e category	: Industrial use, Professional use, Consumer use
ndustria	al/Professional use spec.	: Non-dispersive use Used in closed systems
Functior	n or use category	: Liquid for car cooling circuit
1.2.2.	Uses advised against	
No addit	tional information available	
1.3.	Details of the supplier of the safe	tv data sheet
Georges 2620 He F 0032 (	DIL CORPORATION N.V. s Gilliotstraat, 52 emiksem - België (0)3 870 00 00 / 0476/23 33 14 <u>olfoil.com</u>	
1.4.	Emergency telephone number	
Emerger	ncy number	: 0032 (0)70 245 245
2.1. Classifi	Classification of the substance or cation according to Regulation (EC	r mixture
2.1. Classifi Acute To STOT R Full text Adverse	cation according to Regulation (EC	r mixture ) No. 1272/2008 [CLP]
Acute To STOT R Full text Adverse No addit 2.2.	cation according to Regulation (EC ox. 4 (Oral) H302 E 2 H373 of H-phrases: see section 16 e physicochemical, human health at tional information available Label elements	r mixture ) No. 1272/2008 [CLP] nd environmental effects
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## SECTION 3: Composition/information on ingredients

#### Substances 3.1.

Not applicable

#### Mixture 3.2.

Name	Product identifier	%	Classification according to Directive 67/548/EEC
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	Xn; R22
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 R-, H- and EUH-phrases: 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. Assure fresh air breathing. 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 effe	ects, 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 medic	al 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 se	ubstance 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.			

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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			
<b>SECTION 7: Handling and storag</b>	e		
7.1. Precautions for safe handling			
Precautions for safe handling	<ul> <li>Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. Remove ignition sources. No naked lights. No smoking. Take precautionary measures against static discharges.</li> </ul>		
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, inc	luding 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.	Anti-Freeze and De-icing products.		
SECTION 8: Exposure controls/personal protection			

3.1. Control parameters		
WOLF COOLANT -36°C LONGLIFE G13		
EU	IOELV STEL (mg/m <sup>3</sup> )	104 mg/m³ @ 15 min.
EU	IOELV STEL (ppm)	40 ppm @ 15 min.

#### **Exposure controls** 8.2.

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	: purple.
Odour	: mild. slight.
Odour threshold	: No data available
рН	: 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
Self ignition temperature	: 400 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available

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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/m³ @ 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

No additional information available		
<b>SECTION 10: Stability and reactivity</b>		
0.1. 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.		
<b>SECTION 11: Toxicological informati</b>	ion	
11.1. Information on toxicological effects		
Acute toxicity	: Harmful if swallowed.	
WOLF COOLANT -36°C LONGLIFE G13		
ATE (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	
Respiratory or skin sensitisation	pH: 7,5 - 9,5 : 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	
Potential Adverse human health effects and symptoms	: Ingestion may cause nausea, vomiting and diarrhea.	

SECTION 12: Ecological information		
12.1. Toxicity		
ethanediol (107-21-1)		
LC50 fishes 1	53000 mg/l @96h - Pimephales promelas	

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ethanediol (107-21-1)		
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 LONGLIFE G13			
Persistence and degradability	Prevent entry to sewers and public waters.		
ethanediol (107-21-1)			
Biochemical oxygen demand (BOD)	0,47 g O <sup>2</sup> /g substance		
Chemical oyxgen demand (COD)	1,29 g O <sup>2</sup> /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 assessme	nt		
No additional information available			
12.6. Other adverse effects			
	: No specific risk for the environment.		
SECTION 13: Disposal consideration	15		
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 regular	ions		
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			

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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

No REACH Annex XVII restrictions

Contains no REACH candidate substance

### 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::

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
R22	Harmful if swallowed
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.