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

1.1. Product identifier
Product form : Mixture
Product name : CHAMPION 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
Function or use category : Used in closed systems

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
2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients
3.1. Substance
Not applicable
3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol</td>
<td>(CAS No) 107-21-1 (EC no) 203-473-3</td>
<td>50 - 75</td>
<td>Acute Tox. 4 (Oral), H302 STOT RE 2, H373</td>
</tr>
</tbody>
</table>

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.
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

<table>
<thead>
<tr>
<th>CHAMPION COOLANT -36°C STANDARD G11</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
</tr>
<tr>
<td>EU</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Personal protective equipment:
Safety glasses. Gloves.

Hand protection:
Permeation time: minimum 480 min 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

Boiling point:
≥ 133 °C

Auto-ignition temperature:
400 °C
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/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

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

CHAMPION COOLANT -36°C STANDARD G11
Viscosity, kinematic : 1.89 mm²/s @20°C
Potential adverse human health effects and symptoms : Ingestion may cause nausea, vomiting and diarrhea.
# CHAMPION COOLANT -36°C STANDARD G11 Safety Data Sheet


## SECTION 12: Ecological information

### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Chemical</th>
<th>LC50 fish 1</th>
<th>EC50 Daphnia 1</th>
<th>EC50 other aquatic organisms 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol (107-21-1)</td>
<td>53000 mg/l @96h - Pimephales promelas</td>
<td>51000 mg/l @48h - Daphnia magna</td>
<td>24000 mg/l @168h - Selenastrum capricornutum</td>
</tr>
</tbody>
</table>

### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol (107-21-1)</td>
<td>Prevent entry to sewers and public waters.</td>
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</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>biochemical oxygen demand (BOD)</td>
<td>0,47 g O₂/g substance</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>1,29 g O₂/g substance</td>
</tr>
<tr>
<td>Biodegradation</td>
<td>90 %</td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Bioconcentration factor (BCF REACH)</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol (107-21-1)</td>
<td>10</td>
<td>-1,36</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Surface tension</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanediol (107-21-1)</td>
<td>49890 N/m @25°C</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Type of Shipping Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name (ADR)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Proper Shipping Name (IMDG)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Proper Shipping Name (IATA)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Proper Shipping Name (ADN)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Proper Shipping Name (RID)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### 14.3. Transport hazard class(es)

<table>
<thead>
<tr>
<th>Mode of Transport</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>Not applicable</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not applicable</td>
</tr>
<tr>
<td>IATA</td>
<td>Not applicable</td>
</tr>
<tr>
<td>ADN</td>
<td>Not applicable</td>
</tr>
<tr>
<td>RID</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
14.4. Packing group

<table>
<thead>
<tr>
<th>Packing group</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group (ADR)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group (IMDG)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group (IATA)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group (ADN)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group (RID)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

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)

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
### SECTION 16: Other information

**Indication of changes:**

<table>
<thead>
<tr>
<th></th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Modified</th>
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<tbody>
<tr>
<td>2.2</td>
<td>Label elements</td>
<td>Modified</td>
</tr>
<tr>
<td>15</td>
<td>Chemical safety assessment</td>
<td>Modified</td>
</tr>
<tr>
<td>16</td>
<td>Abbreviations and acronyms</td>
<td>Modified</td>
</tr>
</tbody>
</table>

**Abbreviations and acronyms:**

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Governmental Industrial Hygienists</td>
</tr>
<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>ASTM</td>
<td>American Society for Testing and Materials</td>
</tr>
<tr>
<td>ADR</td>
<td>Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route</td>
</tr>
<tr>
<td>RID</td>
<td>Regulations Concerning the International Carriage of Dangerous Goods by Rail</td>
</tr>
<tr>
<td>ADNR</td>
<td>Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>STEL</td>
<td>Short Term Exposure Limit</td>
</tr>
<tr>
<td>LD50</td>
<td>median Lethal Dose for 50% of subjects</td>
</tr>
<tr>
<td>ATE</td>
<td>acute toxicity estimate</td>
</tr>
<tr>
<td>LC50</td>
<td>median Lethal Concentration for 50% of subjects</td>
</tr>
<tr>
<td>EC50</td>
<td>concentration producing 50% effect</td>
</tr>
</tbody>
</table>

**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:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral), Category 4</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity — Repeated exposure, Category 2</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

**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.