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

1.1. Product identifier

- **Product form**: Mixture
- **Trade name**: Coolant SP 11
- **Product code**: 09.10.04
- **Product group**: Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

- **Intended for general public**

- **Main use category**: Industrial use, Professional use, Consumer use

- **Use of the substance/mixture**: Antifreeze and coolant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Kroon Oil BV
Dollegoorweg 15
7602 EC Almelo - Netherlands
T 0031 (0)546 81 81 65
vib@kroon-oil.nl

1.4. Emergency telephone number

<table>
<thead>
<tr>
<th>Country</th>
<th>Organisation/Company</th>
<th>Address</th>
<th>Emergency number</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ireland</td>
<td>National Poisons Information Centre</td>
<td>PO Box 1297</td>
<td>+353 1 809 2566</td>
<td>(Healthcare professionals-</td>
</tr>
<tr>
<td></td>
<td>Beaumont Hospital</td>
<td>Beaumont Road</td>
<td></td>
<td>24/7)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9 Dublin</td>
<td>+353 1 809 2166</td>
<td>(public,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8am - 10pm, 7/7)</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>National Poisons Information Service (Cardiff Centre)</td>
<td>Penarth CP64 2XX Cardiff</td>
<td>0344 892 0111</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gwenwyn Ward, Llandough Hospital</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Adverse physicochemical, human health and environmental effects**

May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed.

2.2. Label elements

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

Hazard pictograms (CLP) :
Signal word (CLP): Warning
Hazardous ingredients: 1,2-ethanediol
Hazard statements (CLP):
- H302 - Harmful if swallowed.
- H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP):
- P101 - If medical advice is needed, have product container or label at hand.
- P102 - Keep out of reach of children.
- P264 - Wash hands thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P314 - Get medical advice/attention if you feel unwell.
- P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<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>1,2-ethanediol</td>
<td>(CAS-No.) 107-21-1</td>
<td>25 – 80</td>
<td>Acute Tox. 4 (Oral), H302 STOT RE 2, H373</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 203-473-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(EC Index-No.) 603-027-00-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(REACH-no) 01-2119458616-28</td>
<td></td>
<td></td>
</tr>
<tr>
<td>sodium benzoate</td>
<td>(CAS-No.) 532-32-1</td>
<td>1 – 10</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 208-534-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(REACH-no) 01-2119460683-35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>disodium tetraborate pentahydrate substance listed as REACH Candidate (Disodium tetraborate, anhydrous)</td>
<td>(CAS-No.) 12179-04-3</td>
<td>&lt; 1</td>
<td>Repr. 1B, H360FD</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 606-808-1</td>
<td></td>
<td></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: If you feel unwell, seek medical advice (show the label where possible). Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact: Wash skin with plenty of water.
First-aid measures after eye contact: Rinse eyes with water as a precaution.
First-aid measures after ingestion: Do not induce vomiting. Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects: No additional information available. Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation: Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.
Symptoms/effects after ingestion: Ingestion may cause nausea, vomiting and diarrhea. May result in aspiration into the lungs, causing chemical pneumonia.
4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Combustible liquid.
Hazardous decomposition products in case of fire: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

5.3. Advice for firefighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Take up liquid spill into absorbent material.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Provide good ventilation in process area to prevent formation of vapour.
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 conditions: Keep container closed when not in use. Keep in a cool, well-ventilated place away from heat.
Storage temperature: 0 – 40 °C

7.3. Specific end use(s)

No additional information available
### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<table>
<thead>
<tr>
<th><strong>Disodium tetraborate pentahydrate (12179-04-3)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Local name</strong></td>
</tr>
<tr>
<td><strong>WEL TWA (mg/m³)</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>1,2-ethanediol (107-21-1)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Local name</strong></td>
</tr>
<tr>
<td><strong>IOELV TWA (mg/m³)</strong></td>
</tr>
<tr>
<td><strong>IOELV TWA (ppm)</strong></td>
</tr>
<tr>
<td><strong>IOELV STEL (mg/m³)</strong></td>
</tr>
<tr>
<td><strong>IOELV STEL (ppm)</strong></td>
</tr>
<tr>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td><strong>Regulatory reference</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>United Kingdom - Occupational Exposure Limits</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Local name</strong></td>
</tr>
<tr>
<td><strong>WEL TWA (mg/m³)</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>WEL TWA (ppm)</strong></td>
</tr>
<tr>
<td><strong>WEL STEL (mg/m³)</strong></td>
</tr>
<tr>
<td><strong>WEL STEL (ppm)</strong></td>
</tr>
<tr>
<td><strong>Remark (WEL)</strong></td>
</tr>
</tbody>
</table>

#### 8.2. Exposure controls

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

**Materials for protective clothing:**

Wear suitable protective clothing

**Hand protection:**

Protective gloves
Coolant SP 11
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

<table>
<thead>
<tr>
<th>Type</th>
<th>Material</th>
<th>Permeation</th>
<th>Thickness (mm)</th>
<th>Penetration</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reusable gloves</td>
<td>Nitrile rubber (NBR)</td>
<td>6 (&gt; 480 minutes)</td>
<td>≥ 0.35</td>
<td>EN ISO 374</td>
<td></td>
</tr>
</tbody>
</table>

### Eye protection:

Safety glasses

<table>
<thead>
<tr>
<th>Type</th>
<th>Use</th>
<th>Characteristics</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety glasses</td>
<td>Droplet</td>
<td>clear</td>
<td>EN 166</td>
</tr>
</tbody>
</table>

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Personal protective equipment symbol(s):

### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- **Physical state**: Liquid
- **Colour**: Blue.
- **Odour**: Characteristic.
- **Odour threshold**: No data available
- **pH**: 8.2
- **Relative evaporation rate (butylacetate=1)**: No data available
- **Melting point**: Not applicable
- **Freezing point**: -38 °C
- **Boiling point**: No data available
- **Flash point**: No data available
- **Auto-ignition temperature**: No data available
- **Decomposition temperature**: No data available
- **Flammability (solid, gas)**: Not applicable
- **Vapour pressure**: No data available
- **Relative vapour density at 20 °C**: No data available
- **Relative density**: No data available
- **Density**: 1,077 kg/l (15 °C) - ASTM D4052
- **Solubility**: Miscible with water.
- **Partition coefficient n-octanol/water (Log Pow)**: No data available
- **Viscosity, kinematic**: No data available
- **Viscosity, dynamic**: No data available
- **Explosive properties**: Presents no particular fire or explosion hazard.
- **Oxidising properties**: No data available
- **Explosive limits**: No data available

### 9.2. Other information

- **VOC content**: 0 %
SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Reacts violently with (strong) oxidizers.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
No decomposition if stored normally.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th></th>
<th>Acute toxicity (oral)</th>
<th>Acute toxicity (dermal)</th>
<th>Acute toxicity (inhalation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coolant SP 11</td>
<td>Harmful if swallowed.</td>
<td>Not classified</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

ATE CLP (oral) 941,62 mg/kg bodyweight

disodium tetraborate pentahydrate (12179-04-3)

<table>
<thead>
<tr>
<th></th>
<th>LD50 oral rat</th>
<th>LD50 dermal rabbit</th>
<th>LC50 inhalation rat (Dust/Mist - mg/l/4h)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&gt; 2000 mg/kg bodyweight</td>
<td>&gt; 2000 mg/kg bodyweight</td>
<td>&gt; 12,2 mg/l/4h</td>
</tr>
</tbody>
</table>

sodium benzoate (532-32-1)

<table>
<thead>
<tr>
<th></th>
<th>LD50 oral rat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2100 mg/kg</td>
</tr>
</tbody>
</table>

1,2-ethanediol (107-21-1)

<table>
<thead>
<tr>
<th></th>
<th>LD50 oral rat</th>
<th>LD50 dermal</th>
<th>LC50 inhalation rat (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7712 mg/kg bodyweight Animal: rat</td>
<td>3500 mg/kg bodyweight mouse</td>
<td>&gt; 2,5 mg/l</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified
pH: 8,2

Serious eye damage/irritation : Not classified
pH: 8,2

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified
1,2-ethanediol (107-21-1)

NOAEL (chronic, oral, animal/male, 2 years) 1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: other: Effect type: carcinogenicity (migrated information)

Reproductive toxicity: Not classified
STOT-single exposure: Not classified
STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute): Not classified
Hazardous to the aquatic environment, long-term (chronic): Not classified

1,2-ethanediol (107-21-1)

LC50 fish 72860 mg/l Test organisms (species): Pimephales promelas
EC50 Daphnia > 100 mg/l Test organisms (species): Daphnia magna
EC50 96h algae (1) 3536 mg/l Test organisms (species): other: green algae
EC50 96h algae (2) 6500 – 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic) ≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: ‘23 d’

12.2. Persistence and degradability

Coolant SP 11
Persistence and degradability: Biodegradable.

1,2-ethanediol (107-21-1)

Biodegradation 90 % > 10d (OECD 301A method)

12.3. Bioaccumulative potential

1,2-ethanediol (107-21-1)
Partition coefficient n-octanol/water (Log Kow) -1.36

12.4. Mobility in soil

1,2-ethanediol (107-21-1)
Partition coefficient n-octanol/water (Log Koc) 1

12.5. Results of PBT and vPvB assessment

Component
disodium tetraborate pentahydrate (12179-04-3) This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector’s sorting instructions.
Product/Package disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
European List of Waste (LoW) code : 16 01 14* - antifreeze fluids containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

No supplementary information available

14.6. Special precautions for user

Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

14.7. Transport in bulk according to Annex II of Marpol 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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

<table>
<thead>
<tr>
<th>Reference code</th>
<th>Applicable on</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td>sodium benzoate ; 1,2-ethanediol</td>
</tr>
</tbody>
</table>
Coolant SP 11
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3(b)  Coolant SP 11 ; sodium benzoate ; 1,2-ethanediol
Contains a substance on the REACH candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: Disodium tetraborate, anhydrous (EC 606-808-1, CAS 12179-04-3)
Contains no REACH Annex XIV substances

VOC content : 0 %
Child-resistant fastening : Not applicable
Tactile warning : Applicable

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information

<table>
<thead>
<tr>
<th>Indication of changes:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Section</td>
<td>Changed item</td>
</tr>
<tr>
<td>16</td>
<td>Abbreviations and acronyms</td>
</tr>
</tbody>
</table>

Abbreviations and acronyms:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
<td>European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</td>
</tr>
<tr>
<td>ADR</td>
<td>European Agreement concerning the International Carriage of Dangerous Goods by Road</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute Toxicity Estimate</td>
</tr>
<tr>
<td>BCF</td>
<td>Bioconcentration factor</td>
</tr>
<tr>
<td>CLP</td>
<td>Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimal Effect level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived-No Effect Level</td>
</tr>
<tr>
<td>EC50</td>
<td>Median effective concentration</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>LD50</td>
<td>Median lethal dose</td>
</tr>
<tr>
<td>LC50</td>
<td>Median lethal concentration</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NOAEC</td>
<td>No-Observed Adverse Effect Concentration</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No-Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NOEC</td>
<td>No-Observed Effect Concentration</td>
</tr>
<tr>
<td>OECD</td>
<td>Organisation for Economic Co-operation and Development</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent Bioaccumulative Toxic</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No-Effect Concentration</td>
</tr>
</tbody>
</table>
## Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral), Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation, Category 2</td>
</tr>
<tr>
<td>Repr. 1B</td>
<td>Reproductive toxicity, Category 1B</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>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H360FD</td>
<td>May damage fertility. May damage the unborn child.</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.

- **RID**: Regulations concerning the International Carriage of Dangerous Goods by Rail
- **STP**: Sewage treatment plant
- **TLM**: Median Tolerance Limit
- **SDS**: Safety Data Sheet
- **vPvB**: Very Persistent and Very Bioaccumulative
- **BLV**: Biological limit value
- **CAS-No.**: Chemical Abstract Service number
- **EC-No.**: European Community number
- **EN**: European Standard
- **OEL**: Occupational Exposure Limit
- **WGK**: Water Hazard Class