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

1.1 Product identifier
Product name: ECOCOOL XEP

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Coolant/ Cutting solution
Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier: FUCHS LUBRICANTS (UK) PLC.
New Century Street
Hanley
Stoke-on-Trent, Staffordshire, ST1 5HU
UK

Telephone: +44 (0) 1782 203700

Contact Person: Product Safety department
Telephone: +44 (0) 1782 203700
E-mail: product.safety@fuchs-oil.com

1.4 Emergency telephone number: UK NHS: Dial 111. Ireland NPIS: Dial +353 1 8092566.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards
Skin sensitizer Category 1 H317: May cause an allergic skin reaction.

Environmental Hazards
Chronic hazards to the aquatic environment Category 2 H411: Toxic to aquatic life with long lasting effects.

Hazard summary
Physical Hazards: No data available.

2.2 Label Elements
Contains: Tetramethylolurea derivative
Signal Words: Warning

Hazard Statement(s): H317: May cause an allergic skin reaction.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Supplemental label information
EUH208: Contains Iodobutylcarbamate, Isothiazolinone derivative. May produce an allergic reaction.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mixture of mineral base oil, anionic and nonionic agents and corrosion preventing additives in combination with stabilizers based on glycol-fatty alcohols. This product is applied only as solution or emulsion in water.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Identifier</th>
<th>Concentration *</th>
<th>REACH Registration No.</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base oil, low viscous</td>
<td>EINECS: 265-157-1</td>
<td>20,00 - &lt;50,00%</td>
<td>01-2119484627-25</td>
<td></td>
</tr>
<tr>
<td>Alcohols</td>
<td>EINECS: 292-334-0</td>
<td>2,50 - &lt;5,00%</td>
<td>01-2119490230-48</td>
<td></td>
</tr>
<tr>
<td>Fatty acid/MEA-neutralisation product, ethoxylated</td>
<td>Neutralisation product (*)</td>
<td>1,00 - &lt;5,00%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>acid, ionic equilibrium with organic bases</td>
<td>Neutralisation product (*)</td>
<td>1,00 - &lt;5,00%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>prim. alkanolamine, ionic equilibrium with acids</td>
<td>Neutralisation product (*)</td>
<td>1,00 - &lt;5,00%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Product name:** ECOCOOL XEP

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Identifier</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetramethylolurea derivative</td>
<td>EINECS: 226-408-0</td>
<td>1,00 - &lt;5,00%</td>
</tr>
<tr>
<td>Potassium carbonate</td>
<td>EINECS: 209-529-3</td>
<td>1,00 - &lt;5,00%</td>
</tr>
<tr>
<td>acid, ionic equilibrium with organic bases</td>
<td>Neutralisation product (*)</td>
<td>0,10 - &lt;1,00%</td>
</tr>
<tr>
<td>Iodobutylcarbamate</td>
<td>EINECS: 259-627-5</td>
<td>0,10 - &lt;0,25%</td>
</tr>
<tr>
<td>Isothiazolinone derivative</td>
<td>EC: 420-590-7</td>
<td>0,10 - &lt;0,25%</td>
</tr>
<tr>
<td>Polyglycole</td>
<td>Polymer</td>
<td>0,10 - &lt;1,00%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance. (*) Neutralisation product: Equilibrium of Ionic Pairs in aqueous solution according to REACH Annex V, 4.

**Classification**

For the wording of the listed risk phrases refer to section 16.

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Note L of Annex VI of Regulation EC 1272/2008.

**SECTION 4: First aid measures**

**General:** Instantly remove any clothing soiled by the product.

**4.1 Description of first aid measures**

**Inhalation:** Supply fresh air; consult doctor in case of symptoms.

**Eye contact:** Promptly wash eyes with plenty of water while lifting the eye lids.
**Skin Contact:** Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

**Ingestion:** Rinse mouth thoroughly.

**4.2 Most important symptoms and effects, both acute and delayed:** Suspected to cause hypersensitivity and allergy.

**4.3 Indication of any immediate medical attention and special treatment needed**
Hand over this safety data sheet to the physician with the special comment "watermiscible cutting oil". Symptoms may be delayed.

### SECTION 5: Firefighting measures

**5.1 Extinguishing media**
- **Suitable extinguishing media:** CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added
- **Unsuitable extinguishing media:** Water with a full water jet.

**5.2 Special hazards arising from the substance or mixture:**
During fire, gases hazardous to health may be formed.

**5.3 Advice for firefighters**
- **Special fire fighting procedures:** Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.
- **Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. In case of spills, beware of slippery floors and surfaces.

**6.2 Environmental Precautions:**
Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers). Environmental manager must be informed of all major spillages. Do not allow to enter drainage system, surface or ground water.

**6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.
## 6.4 Reference to other sections:
See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling. See Section 13 for information on disposal.

### SECTION 7: Handling and storage:

#### 7.1 Precautions for safe handling:
Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Prevent formation of aerosols. Observe good industrial hygiene practices. Provide adequate ventilation.

#### 7.2 Conditions for safe storage, including any incompatibilities:
Local regulations concerning handling and storage of waterpolluting products have to be followed. Store above freezing.

#### 7.3 Specific end use(s):
not applicable

**Storage Class:**
12, Non-combustible liquids

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control Parameters

**Occupational Exposure Limits**
None of the components have assigned exposure limits.

#### 8.2 Exposure controls

**Appropriate engineering controls:**
Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**

**General information:**
Wash hands before breaks and after work. Use personal protective equipment as required. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

**Eye/face protection:**
Safety glasses (EN 166) recommended during refilling.
Skin protection
Hand Protection: Material: Nitrile butyl rubber (NBR).
Min. Breakthrough time: >= 480 min
Recommended thickness of the material: >= 0,38 mm
Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

Respiratory Protection: Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/aerosol.

Thermal hazards: Not known.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state: liquid
Form: liquid
Color: Yellow
Odor: Characteristic
Odor Threshold: Not applicable for mixtures
pH: 9,2 (80 g/l)
Freezing point: Not applicable for mixtures
Boiling Point: No data available.
Flash Point: not applicable
Evaporation Rate: Not applicable for mixtures
Flammability (solid, gas): Value not relevant for classification
Flammability Limit - Upper (%): Not applicable for mixtures
Flammability Limit - Lower (%): Not applicable for mixtures
Vapor pressure: Not applicable for mixtures
Vapor density (air=1): Not applicable for mixtures
Density: 0,94 g/cm³ (15 °C)
Solubility(ies)
Solubility in Water: Soluble
Solubility (other): No data available.
SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under normal use conditions.

10.2 Chemical Stability: Stable under normal use conditions.

10.3 Possibility of hazardous reactions: Stable under normal use conditions.

10.4 Conditions to avoid: Stable under normal use conditions.


10.6 Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: May cause an allergic skin reaction.

Eye contact: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral Product: Not classified for acute toxicity based on available data.
### Specified substance(s)

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>LD 50 (Species):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base oil, low viscous</td>
<td>&gt; 5,000 mg/kg (OECD 423)</td>
</tr>
<tr>
<td>Alcohols</td>
<td>&gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Fatty acid/MEA-neutralisation product, ethoxylated</td>
<td>&gt; 3,000 mg/kg</td>
</tr>
<tr>
<td>acid, ionic equilibrium with organic bases</td>
<td>&gt; 2,001 mg/kg</td>
</tr>
<tr>
<td>prim. alkanolamine, ionic equilibrium with acids</td>
<td>3,400 mg/kg</td>
</tr>
<tr>
<td>Tetramethylolurea derivative</td>
<td>&gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Potassium carbonate</td>
<td>&gt; 2,001 mg/kg</td>
</tr>
<tr>
<td>Iodobutylcarbamate</td>
<td>1,470 mg/kg</td>
</tr>
<tr>
<td>Polyglycole</td>
<td>5,000 mg/kg</td>
</tr>
</tbody>
</table>

### Dermal Product:

Not classified for acute toxicity based on available data.

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>LD 50 (Species):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base oil, low viscous</td>
<td>&gt; 5,000 mg/kg (OECD 402)</td>
</tr>
<tr>
<td>Alcohols</td>
<td>&gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>prim. alkanolamine, ionic equilibrium with acids</td>
<td>&gt; 3,000 mg/kg</td>
</tr>
<tr>
<td>Tetramethylolurea derivative</td>
<td>&gt; 2,001 mg/kg</td>
</tr>
<tr>
<td>Iodobutylcarbamate</td>
<td>&gt; 2,001 mg/kg</td>
</tr>
</tbody>
</table>

### Inhalation Product:

ATEmix: 130.67 mg/l

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>LC 50 (Species, Duration):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodobutylcarbamate</td>
<td>6.89 mg/l, 4 h</td>
</tr>
<tr>
<td>Polyglycole</td>
<td>0.147 mg/l, 4 h</td>
</tr>
</tbody>
</table>

### Skin Corrosion/Irritation:

Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>Classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iodobutylcarbamate</td>
<td>Strongly irritating.</td>
</tr>
</tbody>
</table>
**Serious Eye Damage/Eye Irritation:**

Product: Based on available data, the classification criteria are not met.

Specified substance(s)

Iodobutylcarbamate

(Rabbit): Strongly irritating.

**Respiratory or Skin Sensitization:**

Product: Skin sensitizer: Based on available data, the classification criteria are met. Respiratory sensitizer: Based on available data, the classification criteria are not met.

**Germ Cell Mutagenicity**

Product: Based on available data, the classification criteria are not met.

**Carcinogenicity**

Product: Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Product: Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure**

Product: Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeated Exposure**

Product: Based on available data, the classification criteria are not met.

**Aspiration Hazard**

Product: Based on available data, the classification criteria are not met.

**Other adverse effects:**

No data available.

---

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**

Product: Based on available data, the classification criteria are not met.

**Fish**

Specified substance(s)

Base oil, low viscous

LC 50 (Fish, 96 h): > 101 mg/l (OECD 203)

Fatty acid/MEA-neutralisation product, ethoxylated

LC 50 (Fish, 96 h): 4,2 - 5,1 mg/l

prim. alkanolamine, ionic equilibrium with acids

LC 50 (Fish, 96 h): 460 mg/l

Tetramethylolurea derivative

LC 50 (Fish, 96 h): 158 mg/l

Iodobutylcarbamate

LC 50 (Fish, 96 h): 0,067 mg/l
Aquatic Invertebrates
Specified substance(s)
Base oil, low viscous
Fatty acid/MEA-neutralisation product, ethoxylated
prim. alkanolamine, ionic equilibrium with acids
Tetramethylolurea derivative
Iodobutylcarbamate

EC 50 (Water Flea, 48 h): > 10.000 mg/l (OECD 202)
EC 50 (Water Flea, 48 h): 2,4 - 3,2 mg/l
EC 50 (Water Flea, 48 h): 189 mg/l
EC 50 (Water Flea, 48 h): > 17,8 mg/l
EC 50 (Water Flea, 48 h): 0,16 mg/l

Chronic Toxicity:
Based on available data, the classification criteria are met.

Fish
Specified substance(s)
Iodobutylcarbamate

NOEC (Fish, 96 h): 0,049 mg/l

Aquatic Invertebrates
Specified substance(s)
Iodobutylcarbamate

EC 50 (Water Flea, 21 d): 0,05 mg/l

Toxicity to Aquatic Plants
Specified substance(s)
Base oil, low viscous
Alcohols
prim. alkanolamine, ionic equilibrium with acids
Iodobutylcarbamate

EC 50 (Alga, 72 h): > 101 mg/l
LC 50 (Alga, 24 h): <= 1 mg/l
EC 50 (Alga, 72 h): 202 mg/l
EC 50 (Alga, 72 h): 0,022 mg/l

12.2 Persistence and Degradability

Biodegradation
Product:
Specified substance(s)
Iodobutylcarbamate

Not applicable for mixtures
Readily biodegradable

12.3 Bioaccumulative potential
Product:
Not applicable for mixtures

12.4 Mobility in soil:
Product:
Not applicable for mixtures

12.5 Results of PBT and vPvB assessment:
The product does not contain any substances fulfilling the PBT/vPvB criteria.
12.6 Other adverse effects: Toxic to aquatic life with long lasting effects.


SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local laws. When storing used products, ensure that the waste categories and mixing instructions are observed. Do not empty into drains; dispose of this material and its container in a safe way. Product contains in the application concentration traces of iodine containing substances; this can result in an AOX value.

European Waste Codes

12 01 09*: machining emulsions and solutions free of halogens

SECTION 14: Transport information

**ADR/RID**

14.1 UN Number: UN 3082
14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Alcohols)
14.3 Transport Hazard Class(es)
   Class: 9
   Label(s): 9
   Hazard No. (ADR): 90
   Tunnel restriction code: (E)
14.4 Packing Group: III
14.5 Environmental hazards: Dangerous for the environment
14.6 Special precautions for user: –

**ADN**

14.1 UN Number: UN 3082
14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport Hazard Class(es)
   Class: 9
   Label(s): 9
14.3 Packing Group: III
14.5 Environmental hazards: Dangerous for the environment
14.6 Special precautions for user: –
Product name: ECOCOOL XEP

IMDG
14.1 UN Number: UN 3082
14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Alcohols)
14.3 Transport Hazard Class(es)
   Class: 9
   Label(s): 9
   EmS No.: F-A, S-F
14.3 Packing Group: III
14.5 Environmental hazards: Marine Pollutant
14.6 Special precautions for user: –

IATA
14.1 UN Number: UN 3082
14.2 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(Alcohols)
14.3 Transport Hazard Class(es):
   Class: 9
   Label(s): 9MI
14.4 Packing Group: III
14.5 Environmental hazards: Dangerous for the environment
14.6 Special precautions for user: –

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:

   EU Regulations

   Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none


15.2 Chemical safety assessment:

   No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.
**Product name:** ECOCOOL XEP

**Wording of the H-statements in section 2 and 3**

<table>
<thead>
<tr>
<th>H-statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H304</td>
<td>May be fatal if swallowed and enters airways.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H330</td>
<td>Fatal if inhaled.</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life.</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

**Other information:** The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

**Revision Date:** 24.01.2017

**Disclaimer:**

The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.