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

1.1. Product identifier
Bikeline E-Bike Reiniger 1L

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

1.3. Details of the supplier of the safety data sheet
Company name: TUNAP Deutschland Vertriebs GmbH & Co. Betriebs KG
Street: Bürgermeister-Seidl-Str. 2
Place: D-82515 Wolfratshausen
Telephone: +49 (0) 8171/1600 - 0
Telefax: +49 (0) 8171/1600 - 40
e-mail: sdb@tunap.com
Internet: www.tunap.com

1.4. Emergency telephone number:
+49 (0) 30 30 686 790 (Giftnotruf Berlin)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements
Regulation (EC) No. 1272/2008
Precautionary statements
P102 Keep out of reach of children.
P101 If medical advice is needed, have product container or label at hand.
P501 Dispose of contents/container according to the official regulations.

Special labelling of certain mixtures
EUH210 Safety data sheet available on request.

2.3. Other hazards
No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>34590-94-8</td>
<td>(2-methoxymethylethoxy)propanol</td>
<td></td>
<td></td>
<td></td>
<td>1 - &lt; 3 %</td>
</tr>
<tr>
<td>252-104-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of H and EUH statements: see section 16.
Labelling for contents according to Regulation (EC) No 648/2004
< 5 % non-ionic surfactants.

SECTION 4: First aid measures
4.1. Description of first aid measures

General information
First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

After inhalation
Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin
Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with eyes
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion
Rinse mouth immediately and drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed
Headache, nausea, dizziness, fatigue, skin irritation

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media
High power water jet.

5.2. Special hazards arising from the substance or mixture
Non-flammable.

5.3. Advice for firefighters
In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Wear personal protection equipment.

6.2. Environmental precautions
Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

6.3. Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections
Safe handling: see section 7
Personal protection equipment: see section 8
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
Observe instructions for use.
Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
When using do not eat, drink, smoke, sniff.
Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion
No special measures are necessary.

Further information on handling
Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed. Observe legal regulations and provisions.

Advice on storage compatibility
Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

Further information on storage conditions
Protect from frost. Store in a cool dry place. Observe legal regulations and provisions.

7.3. Specific end use(s)
No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>34590-94-8</td>
<td>(2-methoxymethylethoxy) propanol</td>
<td>50</td>
<td>308</td>
<td>-</td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

Additional advice on limit values
a) no restriction
b) End of exposure or end of shift
c) at long term exposure: after several previous shifts
d) before next shift

Blood (B)
Urine (U)

8.2. Exposure controls

Appropriate engineering controls
If handled uncovered, arrangements with local exhaust ventilation have to be used.

Protective and hygiene measures
Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

Eye/face protection
Suitable eye protection: Tightly sealed safety glasses.
Hand protection
- Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
- Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min
- Thickness of the glove material 0,45 mm
- DIN EN 374

Skin protection
- Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.
- When exceeding the relevant workplace exposure limits, note the following:
  - Suitable respiratory protective equipment: Combination filter device (DIN EN 141).
  - Filtering device with filter or ventilator filtering device of type: A
  - Observe the wear time limits as specified by the manufacturer.
  - Observe legal regulations and provisions.

Environmental exposure controls
- Observe legal regulations and provisions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>characteristic</td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH-Value (at 20 °C):</td>
<td>9,68</td>
<td>DIN 19268</td>
</tr>
<tr>
<td>Changes in the physical state</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point:</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>100 °C</td>
<td></td>
</tr>
<tr>
<td>Flash point:</td>
<td>not determined</td>
<td>ISO 3679</td>
</tr>
<tr>
<td>Flammability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solid:</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Gas:</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Lower explosion limits:</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Upper explosion limits:</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solid:</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Gas:</td>
<td>not applicable</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not oxidising</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>not determined</td>
<td></td>
</tr>
<tr>
<td>Density (at 20 °C):</td>
<td>1,0076 g/cm³</td>
<td>DIN 51757</td>
</tr>
<tr>
<td>Water solubility:</td>
<td>easily soluble</td>
<td></td>
</tr>
</tbody>
</table>
**Solubility in other solvents**

- not determined

**Partition coefficient:**
- not determined

**Viscosity / dynamic:**
- No information available. DIN 53019-1

**Viscosity / kinematic:**
- No information available. DIN EN ISO 3104

**(at 40 °C)**

**Flow time:**
- No information available. DIN EN ISO 2431

**(at 20 °C)**

**Vapour density:**
- not determined

**Evaporation rate:**
- not determined

9.2. Other information

**Solid content:**
- not determined

---

**SECTION 10: Stability and reactivity**

10.1. Reactivity

- No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

- The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

- Do not mix with alkali.

10.4. Conditions to avoid

- Protect from frost.

10.5. Incompatible materials

- Oxidizing agents. Pyrophoric or self-heating substances.

10.6. Hazardous decomposition products

- Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

Further information

- Do not mix with other chemicals.

---

**SECTION 11: Toxicological information**

11.1. Information on toxicological effects

**Toxicokinetics, metabolism and distribution**

- There are no data available on the mixture itself.

**Acute toxicity**

- Based on available data, the classification criteria are not met.
Irritation and corrosivity
Based on available data, the classification criteria are not met.

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

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.
No indications of human carcinogenicity exist.
No indications of human germ cell mutagenicity exist.
No indications of human reproductive toxicity exist.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Based on available data, the classification criteria are not met.

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

Specific effects in experiment on an animal
No information available.

SECTION 12: Ecological information

12.1. Toxicity
The product is not: Ecotoxic.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>10000 mg/l</td>
<td>Pimephales promelas</td>
<td></td>
</tr>
<tr>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>969 mg/l</td>
<td>Pseudokirchineriella subcapitata</td>
<td></td>
</tr>
<tr>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>1919 mg/l</td>
<td>Daphnia magna</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
The product has not been tested.

12.3. Bioaccumulative potential
The product has not been tested.

12.4. Mobility in soil
The product has not been tested.

12.5. Results of PBT and vPvB assessment
The product has not been tested.

12.6. Other adverse effects
No information available.
### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Advice on disposal**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

**Waste disposal number of waste from residues/unused products**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>070701</td>
<td>WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; aqueous washing liquids and mother liquors; hazardous waste</td>
</tr>
</tbody>
</table>

**Waste disposal number of used product**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>070701</td>
<td>WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals and chemical products not otherwise specified; aqueous washing liquids and mother liquors; hazardous waste</td>
</tr>
</tbody>
</table>

**Waste disposal number of contaminated packaging**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>150102</td>
<td>WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging</td>
</tr>
</tbody>
</table>

**Contaminated packaging**

Wash with plenty of water. Completely emptied packages can be recycled.

### SECTION 14: Transport information

**Land transport (ADR/RID)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.2 UN</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es):</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.4 Packing group:</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
</tbody>
</table>

**Inland waterways transport (ADN)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.2 UN</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es):</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.4 Packing group:</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
</tbody>
</table>

**Marine transport (IMDG)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.2 UN</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es):</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.4 Packing group:</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>Marine pollutant:</td>
<td>No</td>
</tr>
</tbody>
</table>

**Air transport (ICAO-TI/IATA-DGR)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.2 UN</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es):</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
<tr>
<td>14.4 Packing group:</td>
<td>No dangerous good in sense of this transport regulation.</td>
</tr>
</tbody>
</table>

**14.5. Environmental hazards**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVIRONMENTALLY HAZARDOUS:</td>
<td>No</td>
</tr>
</tbody>
</table>
14.6. Special precautions for user
No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information
2010/75/EU (VOC): No information available.
2004/42/EC (VOC): No information available.

Additional information
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]: Calculation method.

National regulatory information
Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information

Abbreviations and acronyms
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(IM European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)
EUH210 Safety data sheet available on request.

Further Information
The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)