Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name : Aseptopol EL 75
Product code : 114813E
Use of the Substance/Mixture : Manual Warewashing Detergent
Substance type : Mixture

For professional users only.

Product dilution information : 0.5 % - 2.0 %

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

Identified uses : Dishwash product. Manual process
General purpose cleaner. Manual process
Biocide. Spray and rinse manual process

Recommended restrictions on use : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : Ecolab Ltd.
PO Box 11; Winnington Avenue
Northwich, Cheshire, United Kingdom CW8 4DX
+ 44 (0)1606 74488
ccs@ecolab.com

1.4 Emergency telephone number

Emergency telephone number : Food & Beverage, Institutional, Agriculture, Textile Hygiene:
Northwich: +44 (0)1606 74488
Healthcare Leeds: +44 (0)113 232 2480
Healthcare Swansea: +44 (0)1235 239670

Poison Information Centre telephone number : Not Available

Date of Compilation/Revision : 11.04.2016
version : 2.0

Section: 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Product AS SOLD
SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Aseptopol EL 75

Serious eye damage, Category 1 H318
Chronic aquatic toxicity, Category 1 H410

The classification of this product is based on toxicological assessment.

**Product AT USE DILUTION**
Not a hazardous substance or mixture.

Classification (67/548/EEC, 1999/45/EC)

**Product AS SOLD**
Xi; IRRITANT R41
The classification of this product is based on toxicological assessment.

**Product AT USE DILUTION**
Not a hazardous substance or mixture.

2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

<table>
<thead>
<tr>
<th>Product AS SOLD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard pictograms</td>
</tr>
<tr>
<td><img src="image" alt="Hazard pictograms" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Danger</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Hazard Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>H318 Causes serious eye damage.</td>
</tr>
<tr>
<td>H410 Very toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Precautionary Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prevention:</strong></td>
</tr>
<tr>
<td>P273 Avoid release to the environment.</td>
</tr>
<tr>
<td>P280e Wear eye protection/face protection.</td>
</tr>
<tr>
<td><strong>Response:</strong></td>
</tr>
<tr>
<td>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td>
</tr>
<tr>
<td>P310 Immediately call a POISON CENTER/doctor.</td>
</tr>
</tbody>
</table>

Hazardous components which must be listed on the label:
Alcohols, C9-11, ethoxylated
N,N-Bis(3-aminopropyl)laurylamine
Didecyl Dimethyl Ammonium Chloride

**Product AT USE DILUTION**
Not a hazardous substance or mixture.

2.3 Other hazards

**Product AS SOLD**
None known.
SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Aseptopol EL 75

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Product AS SOLD

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>REGULATION (EC) No 1272/2008</th>
<th>Concentration: [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C9-11, ethoxylated</td>
<td>68439-46-3</td>
<td>Acute toxicity Category 4; H302</td>
<td>10 - &lt; 20</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin irritation Category 2; H315</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Serious eye damage Category 1; H318</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alkylamidopropylbetaines</td>
<td>61789-40-0</td>
<td>Serious eye damage Category 1; H318</td>
<td>2.5 - &lt; 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>263-058-8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>01-2119489410-39</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N,N-Bis(3-aminopropyl)laurylamine</td>
<td>2372-82-9</td>
<td>Acute toxicity Category 3; H301</td>
<td>1 - &lt; 2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>219-145-8</td>
<td>Skin corrosion Category 1A; H314</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Serious eye damage Category 1; H318</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Specific target organ toxicity - repeated exposure Category 2; H373</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute aquatic toxicity Category 1; H400</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic aquatic toxicity Category 1; H410</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Didecyl Dimethyl Ammonium Chloride</td>
<td>7173-51-5</td>
<td>Acute toxicity Category 4; H302</td>
<td>1 - &lt; 2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>230-525-2</td>
<td>Skin corrosion Category 1B; H314</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Substances with a workplace exposure limit:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>REGULATION (EC) No 1272/2008</th>
<th>Concentration: [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>Flammable liquids Category 2; H225</td>
<td>1 - &lt; 2.5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>200-578-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>01-2119457610-43</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>Flammable liquids Category 2; H225</td>
<td>0.5 - &lt; 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>200-861-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>01-2119457558-25</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Product AT USE DILUTION

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>REGULATION (EC) No 1272/2008</th>
<th>Concentration: [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>N,N-Bis(3-aminopropyl)laurylamine</td>
<td>2372-82-9</td>
<td>Acute toxicity Category 3; H301</td>
<td>&lt; 0.1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>219-145-8</td>
<td>Skin corrosion Category 1A; H314</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Serious eye damage Category 1; H318</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Specific target organ toxicity - repeated exposure Category 2; H373</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute aquatic toxicity Category 1; H400</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic aquatic toxicity Category 1; H410</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section: 4. FIRST AID MEASURES

4.1 Description of first aid measures

Product AS SOLD

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy
to do. Continue rinsing. Get medical attention immediately.

In case of skin contact: Rinse with plenty of water.

If swallowed: Rinse mouth. Get medical attention if symptoms occur.

If inhaled: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

**Product AT USE DILUTION**

In case of eye contact: Rinse with plenty of water.

In case of skin contact: Rinse with plenty of water.

If swallowed: Rinse mouth. Get medical attention if symptoms occur.

If inhaled: Get medical attention if symptoms occur.

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

See Section 11 for more detailed information on health effects and symptoms.

4.3 **Indication of immediate medical attention and special treatment needed**

Treatment: Treat symptomatically.

**Section: 5. FIREFIGHTING MEASURES**

**Product AS SOLD**

5.1 **Extinguishing media**

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: None known.

5.2 **Special hazards arising from the substance or mixture**

Specific hazards during firefighting: Fire Hazard
- Keep away from heat and sources of ignition.
- Flash back possible over considerable distance.
- Beware of vapours accumulating to form explosive concentrations.
- Vapours can accumulate in low areas.

Hazardous combustion products: Decomposition products may include the following materials:
- Carbon oxides
- Nitrogen oxides (NOx)
- Sulphur oxides
- Oxides of phosphorus

5.3 **Advice for firefighters**

Special protective equipment for firefighters: Use personal protective equipment.

Further information: Collect contaminated fire extinguishing water separately. This
must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

**Product AS SOLD**
Advice for non-emergency personnel: Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Advice for emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

**Product AT USE DILUTION**
Advice for non-emergency personnel: Refer to protective measures listed in sections 7 and 8.
Advice for emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

6.2 Environmental precautions

**Product AS SOLD**
Environmental precautions: Do not allow contact with soil, surface or ground water.

**Product AT USE DILUTION**
Environmental precautions: No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

**Product AS SOLD**
Methods for cleaning up: Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

**Product AT USE DILUTION**
Methods for cleaning up: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

6.4 Reference to other sections
SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Aseptopol EL 75

See Section 1 for emergency contact information.
For personal protection see section 8.
See Section 13 for additional waste treatment information.

Section: 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

**Product AS SOLD**

**Advice on safe handling**
Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Wash hands thoroughly after handling.

**Hygiene measures**
Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

**Product AT USE DILUTION**

**Advice on safe handling**
Wash hands after handling. For personal protection see section 8.

**Hygiene measures**
Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

**Product AS SOLD**

**Requirements for storage areas and containers**

**Storage temperature**
0 °C to 40 °C

**Product AT USE DILUTION**

**Requirements for storage areas and containers**
Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

7.3 Specific end uses

**Product AS SOLD**

**Specific use(s)**
Dishwash product. Manual process
General purpose cleaner. Manual process
Biocide. Spray and rinse manual process

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

**Product AS SOLD**

**Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>TWA</td>
<td>1,000 ppm</td>
<td>UKCOSSTD</td>
</tr>
</tbody>
</table>
**SAFETY DATA SHEET** according to Regulation (EC) No. 1907/2006

**Aseptopol EL 75**

### Propan-2-ol (67-63-0)

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA</td>
<td>400 ppm</td>
</tr>
<tr>
<td>STEL</td>
<td>500 ppm</td>
</tr>
</tbody>
</table>

### DNEL

<table>
<thead>
<tr>
<th>Propan-2-ol</th>
<th>End Use: Workers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes: Dermal</td>
<td></td>
</tr>
<tr>
<td>Potential health effects: Long-term systemic effects</td>
<td></td>
</tr>
<tr>
<td>Value: 888 mg/cm²</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Propan-2-ol</th>
<th>End Use: Workers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes: Inhalation</td>
<td></td>
</tr>
<tr>
<td>Potential health effects: Long-term systemic effects</td>
<td></td>
</tr>
<tr>
<td>Value: 500 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Propan-2-ol</th>
<th>End Use: Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes: Dermal</td>
<td></td>
</tr>
<tr>
<td>Potential health effects: Long-term systemic effects</td>
<td></td>
</tr>
<tr>
<td>Value: 319 mg/cm²</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Propan-2-ol</th>
<th>End Use: Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes: Inhalation</td>
<td></td>
</tr>
<tr>
<td>Potential health effects: Long-term systemic effects</td>
<td></td>
</tr>
<tr>
<td>Value: 89 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Propan-2-ol</th>
<th>End Use: Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes: Ingestion</td>
<td></td>
</tr>
<tr>
<td>Potential health effects: Long-term systemic effects</td>
<td></td>
</tr>
<tr>
<td>Value: 26 ppm</td>
<td></td>
</tr>
</tbody>
</table>

### PNEC

<table>
<thead>
<tr>
<th>Propan-2-ol</th>
<th>Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh water</td>
<td>Value: 140.9 mg/l</td>
</tr>
<tr>
<td>Marine water</td>
<td>Value: 140.9 mg/l</td>
</tr>
<tr>
<td>Intermittent use/release</td>
<td>Value: 140.9 mg/l</td>
</tr>
<tr>
<td>Fresh water</td>
<td>Value: 552 mg/kg</td>
</tr>
<tr>
<td>Marine sediment</td>
<td>Value: 552 mg/kg</td>
</tr>
<tr>
<td>Soil</td>
<td>Value: 28 mg/kg</td>
</tr>
<tr>
<td>Sewage treatment plant</td>
<td>Value: 2251 mg/l</td>
</tr>
<tr>
<td>Oral</td>
<td>Value: 160 mg/kg</td>
</tr>
</tbody>
</table>
8.2 Exposure controls

Product AS SOLD

Appropriate engineering controls

Engineering measures: Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Individual protection measures

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Eye/face protection (EN 166): Safety goggles
Face-shield

Hand protection (EN 374): No special protective equipment required.

Skin and body protection (EN 14605): No special protective equipment required.

Respiratory protection (EN 143, 14387): None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements (89/656/EEC, 89/686/EEC), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Product AT USE DILUTION

Appropriate engineering controls

Engineering measures: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures: Wash hands before breaks and immediately after handling the product.

Eye/face protection (EN 166): No special protective equipment required.

Hand protection (EN 374): No special protective equipment required.

Skin and body protection (EN 14605): No special protective equipment required.

Respiratory protection (EN 143, 14387): None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements (89/656/EEC, 89/686/EEC), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Environmental exposure controls
General advice: Consider the provision of containment around storage vessels.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>clear, light green</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
<td>odourless</td>
</tr>
<tr>
<td>pH</td>
<td>10.5 - 11.5, 100%</td>
<td>8.8 - 9.4</td>
</tr>
<tr>
<td>Flash point</td>
<td>60 °C, Does not sustain combustion.</td>
<td></td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>Not applicable and/or not determined for the mixture</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not applicable and/or not determined for the mixture</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not applicable and/or not determined for the mixture</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable and/or not determined for the mixture</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable and/or not determined for the mixture</td>
<td></td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not applicable and/or not determined for the mixture</td>
<td></td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not applicable and/or not determined for the mixture</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not applicable and/or not determined for the mixture</td>
<td></td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>Not applicable and/or not determined for the mixture</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>0.99 - 1.03</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not applicable and/or not determined for the mixture</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not applicable and/or not determined for the mixture</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable and/or not determined for the mixture</td>
<td></td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>Not applicable and/or not determined for the mixture</td>
<td></td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>19.838 mm²/s (40 °C)</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable and/or not determined for the mixture</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>The substance or mixture is not classified as oxidizing.</td>
<td></td>
</tr>
</tbody>
</table>

9.2 Other information

Not applicable and/or not determined for the mixture

Section: 10. STABILITY AND REACTIVITY

Product AS SOLD

10.1 Reactivity

No dangerous reaction known under conditions of normal use.
10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Decomposition products may include the following materials:
Carbon oxides
nitrogen oxides (NOx)
Sulphur oxides
Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

**Product AS SOLD**

Information on likely routes of exposure: Inhalation, Eye contact, Skin contact

**Product**

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Acute inhalation toxicity : There is no data available for this product.

Acute dermal toxicity : There is no data available for this product.

Skin corrosion/irritation : No skin irritation
Method: OECD Test Guideline 404
Test substance: Product

Serious eye damage/eye irritation : There is no data available for this product.

Respiratory or skin sensitization : There is no data available for this product.

Carcinogenicity : There is no data available for this product.

Reproductive effects : There is no data available for this product.

Germ cell mutagenicity : There is no data available for this product.

Teratogenicity : There is no data available for this product.
### SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

**Aseptopol EL 75**

<table>
<thead>
<tr>
<th>STOT - single exposure</th>
<th>: There is no data available for this product.</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT - repeated exposure</td>
<td>: There is no data available for this product.</td>
</tr>
<tr>
<td>Aspiration toxicity</td>
<td>: There is no data available for this product.</td>
</tr>
</tbody>
</table>

**Components**

#### Acute oral toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 rat:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C9-11, ethoxylated</td>
<td>1,400 mg/kg</td>
</tr>
<tr>
<td>Alkylamidopropylbetaines</td>
<td>2,600 mg/kg</td>
</tr>
<tr>
<td>N,N-Bis(3-aminopropyl)laurylamine</td>
<td>261 mg/kg</td>
</tr>
<tr>
<td>Didecyl Dimethyl Ammonium Chloride</td>
<td>1,150 mg/kg</td>
</tr>
<tr>
<td>Ethanol</td>
<td>10,470 mg/kg</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>5,840 mg/kg</td>
</tr>
</tbody>
</table>

#### Acute inhalation toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>LC50 rat:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Didecyl Dimethyl Ammonium Chloride</td>
<td>0.07 mg/l</td>
</tr>
<tr>
<td>Ethanol</td>
<td>117 mg/l</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>&gt; 30 mg/l</td>
</tr>
</tbody>
</table>

#### Acute dermal toxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 rat:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C9-11, ethoxylated</td>
<td>&gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Didecyl Dimethyl Ammonium Chloride</td>
<td>2,930 mg/kg</td>
</tr>
<tr>
<td>Ethanol</td>
<td>&gt; 15,800 mg/kg</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>12,870 mg/kg</td>
</tr>
</tbody>
</table>

**Potential Health Effects**

**Product AS SOLD**

<table>
<thead>
<tr>
<th>Eye</th>
<th>: Causes serious eye damage.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>: Health injuries are not known or expected under normal use.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>: Health injuries are not known or expected under normal use.</td>
</tr>
</tbody>
</table>
Inhalation: Health injuries are not known or expected under normal use.
Chronic Exposure: Health injuries are not known or expected under normal use.

**Product AT USE DILUTION**

Eyes: Health injuries are not known or expected under normal use.
Skin: Health injuries are not known or expected under normal use.
Ingestion: Health injuries are not known or expected under normal use.
Inhalation: Health injuries are not known or expected under normal use.
Chronic Exposure: Health injuries are not known or expected under normal use.

**Experience with human exposure**

**Product AS SOLD**

Eye contact: Redness, Pain, Corrosion
Skin contact: No symptoms known or expected.
Ingestion: No symptoms known or expected.
Inhalation: No symptoms known or expected.

**Product AT USE DILUTION**

Eye contact: No symptoms known or expected.
Skin contact: No symptoms known or expected.
Ingestion: No symptoms known or expected.
Inhalation: No symptoms known or expected.

**Section: 12. ECOLOGICAL INFORMATION**

**Product AS SOLD**

**12.1 Ecotoxicity**

Environmental Effects: Very toxic to aquatic life with long lasting effects.

**Product**

Toxicity to fish: Very toxic to aquatic life.
Test substance: Similar Product

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to fish (Chronic toxicity): Very toxic to aquatic life with long lasting effects.
Test substance: Similar Product

**Components**

Toxicity to fish: Alcohols, C9-11, ethoxylated
96 h LC50 Fish: 8.5 mg/l
Aseptopol EL 75

Alkylamidopropylbetaines
96 h LC50 Fish: 2 mg/l

Didecyl Dimethyl Ammonium Chloride
96 h LC50 Fish: 1 mg/l

ethanol
96 h LC50 Pimephales promelas (fathead minnow): > 100 mg/l

propan-2-ol
96 h LC50 Pimephales promelas (fathead minnow): 9,640 mg/l

Components
Toxicity to daphnia and other aquatic invertebrates:
- Alcohols, C9-11, ethoxylated
  48 h EC50 Daphnia magna (Water flea): 5.3 mg/l

Components
Toxicity to algae:
- N,N-Bis(3-aminopropyl)laurylamine
  72 h EC50: 0.014 mg/l

12.2 Persistence and degradability

Product
Biodegradability:
The surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC

Components
Biodegradability:
Alcohols, C9-11, ethoxylated
Result: Readily biodegradable.
Alkylamidopropylbetaines
Result: Biodegradable
N,N-Bis(3-aminopropyl)laurylamine
Result: Readily biodegradable.
Didecyl Dimethyl Ammonium Chloride
Result: Biodegradable
ethanol
Result: Readily biodegradable.
propan-2-ol
Result: Readily biodegradable.

12.3 Bioaccumulative potential
no data available

12.4 Mobility in soil
no data available
12.5 Results of PBT and vPvB assessment

Product Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.1 Waste treatment methods

Product AS SOLD

Product: The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Contaminated packaging: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

Guidance for Waste Code selection: Organic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable European (EU Directive 2008/98/EC) and local regulations.

Product AT USE DILUTION

Product: Diluted product can be flushed to sanitary sewer.

Contaminated packaging: Dispose of in accordance with local, state, and federal regulations.

Section: 14. TRANSPORT INFORMATION

Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

14.1 UN number: 3082
14.2 UN proper shipping: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

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name  N.O.S.  
(Alkylamine(s), Alkyl ammonium chloride)

14.3 Transport hazard class(es): 9
14.4 Packing group: III
14.5 Environmental hazards: Yes

14.6 Special precautions for user: None

Air transport (IATA)

14.1 UN number: 3082
14.2 UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s.  
(Alkylamine(s), Alkyl ammonium chloride)

14.3 Transport hazard class(es): 9
14.4 Packing group: III
14.5 Environmental hazards: Yes

14.6 Special precautions for user: None

Sea transport (IMDG/IMO)

14.1 UN number: 3082
14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Alkylamine(s), Alkyl ammonium chloride)

14.3 Transport hazard class(es): 9
14.4 Packing group: III
14.5 Environmental hazards: Yes

14.6 Special precautions for user: None

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 according to Detergents Regulation EC 648/2004: 5 % or over but less than 15 %: Non-ionic surfactants less than 5 %: Amphoteric surfactants Contains: Disinfectants

National Regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment
This product contains substances for which Chemical Safety Assessments are still required.

Section: 16. OTHER INFORMATION

Full text of H-statements

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information
SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Aseptopol EL 75

Prepared by: Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

ANNEX: EXPOSURE SCENARIOS

DPD+ Substances:

The following substances are the lead substances that contribute to the mixture Exposure Scenario according to the DPD+ Rule:

<table>
<thead>
<tr>
<th>Route</th>
<th>Substance</th>
<th>CAS-No.</th>
<th>EINECS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>N,N-Bis(3-aminopropyl)laurylamine</td>
<td>2372-82-9</td>
<td>219-145-8</td>
</tr>
<tr>
<td>Inhalation</td>
<td>N,N-Bis(3-aminopropyl)laurylamine</td>
<td>2372-82-9</td>
<td>219-145-8</td>
</tr>
<tr>
<td>Dermal</td>
<td>N,N-Bis(3-aminopropyl)laurylamine</td>
<td>2372-82-9</td>
<td>219-145-8</td>
</tr>
<tr>
<td>Eyes</td>
<td>Alcohols, C9-11, ethoxylated</td>
<td>68439-46-3</td>
<td></td>
</tr>
<tr>
<td>aquatic environment</td>
<td>N,N-Bis(3-aminopropyl)laurylamine</td>
<td>2372-82-9</td>
<td>219-145-8</td>
</tr>
</tbody>
</table>

Physical properties DPD+ Substances:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Vapour pressure</th>
<th>Water solubility</th>
<th>Pow</th>
<th>Molar Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>N,N-Bis(3-aminopropyl)laurylamine</td>
<td>0.0000014 hPa</td>
<td>&gt; 10 g/l</td>
<td>0.218</td>
<td></td>
</tr>
<tr>
<td>Alcohols, C9-11, ethoxylated</td>
<td>2.17 Pa</td>
<td>94.58 mg/l</td>
<td>1,995,26</td>
<td></td>
</tr>
</tbody>
</table>

To calculate if your downstream Operating Conditions and Risk management Measures are safe, please calculate your risk factor at the website below:

www.ecetoc.org/tra

Short title of Exposure Scenario: Biocide. Spray and rinse manual process

Use descriptors

Main User Groups: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Sectors of end-use: SU22: Professional uses: Public domain (administration,
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education, entertainment, services, craftsmen)

Process categories: PROC11: Non industrial spraying
PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

Product categories: PC35: Washing and cleaning products (including solvent based products)

Environmental Release Categories: ERC8a: Wide dispersive indoor use of processing aids in open systems

Short title of Exposure Scenario: Dishwash product. Manual process

Use descriptors:

Main User Groups: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Sectors of end-use: SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Process categories: PROC10: Roller application or brushing
PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

Product categories: PC35: Washing and cleaning products (including solvent based products)

Environmental Release Categories: ERC8a: Wide dispersive indoor use of processing aids in open systems

Short title of Exposure Scenario: General purpose cleaner. Manual process

Use descriptors:

Main User Groups: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Sectors of end-use: SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Process categories: PROC10: Roller application or brushing
PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

Product categories: PC35: Washing and cleaning products (including solvent based products)
| Environmental Release Categories | ERC8a: Wide dispersive indoor use of processing aids in open systems |