

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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## Aqua Clean yellow 5l

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

#### 1.1. Product identifier

Trade name/designation:

Aqua Clean yellow 5l

Article No.:

T112005

UFI:

2WF7-KCE1-VSKN-9KQS

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

Use of the substance/mixture:

All-purpose cleaner without abrasives

#### 1.3. Details of the supplier of the safety data sheet

Supplier:

**KANDO Service GmbH**

Hartleitnerstraße 3

4653 Eberstalzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

#### 1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

| Hazard classes and hazard categories               | Hazard statements                              | Classification procedure |
|--|--|--------------------------|
| Corrosive to metals ( <i>Met. Corr. 1</i> )        | H290: May be corrosive to metals.              |                          |
| Skin corrosion/irritation ( <i>Skin Corr. 1B</i> ) | H314: Causes severe skin burns and eye damage. |                          |

#### 2.2. Label elements

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

Hazard pictograms:



**GHS05**

Corrosion

Signal word: Danger

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### Hazard components for labelling:

sodium hydroxide

#### Hazard statements for physical hazards

H290 May be corrosive to metals.

#### Hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

### Supplemental hazard information: none

#### Precautionary statements Prevention

P280 Wear protective gloves/protective clothing and eye protection/face protection.

#### Precautionary statements Response

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER.

### 2.3. Other hazards

#### Adverse human health effects and symptoms:

The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.

#### Adverse environmental effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers  | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP]   | Concentration     |
|--|--|-------------------|
|  | <b>Nonionic surfactants</b><br>The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].                                     | 5 - < 15<br>Vol-% |
| CAS No.: 112-34-5<br>EC No.: 203-961-6<br>REACH No.:<br>01-2119475104-44                             | <b>2-(2-butoxyethoxy)ethanol</b><br>Substance with a community workplace exposure limit.   | 5 - < 10<br>Vol-% |
| CAS No.: 68439-50-9  | <b>Alkyl polyethoxilate</b><br>Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318)<br>  | 5 - < 10<br>Vol-% |
| CAS No.: 67-63-0<br>EC No.: 200-661-7<br>REACH No.:<br>01-2119457558-25                              | <b>propan-2-ol</b><br>The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].  | 5 - < 10<br>Vol-% |
| CAS No.: 68411-30-3<br>EC No.: 270-115-0<br>REACH No.:<br>01-2119489428-22                           | <b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b><br>Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318),<br>Skin Irrit. 2 (H315)<br> | 1 - < 5<br>Vol-%  |
| CAS No.: 6834-92-0<br>EC No.: 229-912-9<br>Index No.: 014-010-00-8<br>REACH No.:<br>01-2119449811-37 | <b>disodium metasilicate</b><br>Met. Corr. 1 (H290), STOT SE 3 (H335), Skin Corr. 1B (H314)<br>  | 1 - < 5<br>Vol-%  |
| CAS No.: 15763-76-5<br>EC No.: 239-854-6<br>REACH No.:<br>01-2119489411-37                           | <b>sodium p-cumenesulphonate</b><br>Eye Irrit. 2 (H319)<br>  | 1 - < 5<br>Vol-%  |

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| Product identifiers  | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP]   | Concentration    |
|--|--|------------------|
| CAS No.: 1310-73-2<br>EC No.: 215-185-5<br>Index No.: 011-002-00-6<br>REACH No.:<br>01-2119457892-27 | <b>sodium hydroxide</b><br>Met. Corr. 1 (H290), Skin Corr. 1A (H314)<br>⚠ Danger<br><b>Specific concentration limit (SCL)</b><br>Skin Corr. 1A; H314: $C \geq 5\%$<br>Skin Corr. 1B; H314: $2\% \leq C < 5\%$<br>Skin Irrit. 2; H315: $0.5\% \leq C < 2\%$<br>Eye Dam. 1; H318: $C \geq 2\%$<br>Eye Irrit. 2; H319: $0.5\% \leq C < 2\%$ | 1 - < 5<br>Vol-% |
| CAS No.: 68608-68-4<br>EC No.: 271-795-1   | <b>Beta-alanine, N-cocoalkyl, Na salt</b><br>Eye Irrit. 2 (H319)<br>⚠ Warning  | 1 - < 5<br>Vol-% |
|  | <b>Anionic surfactants</b><br>The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].  | < 5<br>Vol-%     |
|  | <b>Amphoteric surfactants</b><br>The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].   | < 5<br>Vol-%     |

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

Remove contaminated, saturated clothing immediately.

#### Following inhalation:

Provide fresh air.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

Take off contaminated clothing and wash it before reuse.

#### After eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water.

#### Following ingestion:

Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting.

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

No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Water spray jet, alcohol resistant foam, Carbon dioxide, Extinguishing powder

#### Unsuitable extinguishing media:

Full water jet

### 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon dioxide, Carbon monoxide

### 5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.

### 5.4. Additional information

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

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

**Personal precautions:**

Avoid contact with skin, eyes and clothes.

**Protective equipment:**

Use personal protection equipment.

**Emergency procedures:**

Ventilate affected area.

##### 6.1.2. For emergency responders

**Personal protection equipment:**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

#### 6.3. Methods and material for containment and cleaning up

**For containment:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up:**

Treat the recovered material as prescribed in the section on waste disposal.

**Other information:**

Collect in closed and suitable containers for disposal. Ventilate affected area.

#### 6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Avoid contact with skin, eyes and clothes.

Do not mix with other chemicals.

Use personal protection equipment.

When using do not eat, drink, smoke, sniff.

Do not breathe gas/fumes/vapour/spray.

Use only in well-ventilated areas.

**Fire prevent measures:**

No special fire protection measures are necessary.

**Advices on general occupational hygiene**

Take off contaminated clothing.

Wash hands before breaks and after work.

When using do not eat, drink, smoke, sniff.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels:**

Keep container tightly closed.

**Hints on storage assembly:**

No special measures are necessary.

**Storage class (TRGS 510, Germany):** 8B - Non-combustible corrosive substances

**Further information on storage conditions:**

No further relevant information available.

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### 7.3. Specific end use(s)

#### Recommendation:

Cleaning agent

#### GISCODE:

GG 80

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name   | ① Long-term occupational exposure limit value<br>② Short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|--------------------------------------|--|--|
| MAK (AT)<br>from 11 Sept 2007        | <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6 | ② 15 ppm (101.2 mg/m <sup>3</sup> )<br>⑤ (max. 4x15 min./Schicht)  |
| IOELV (EU)                           | <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6 | ① 10 ppm (67.5 mg/m <sup>3</sup> )<br>② 15 ppm (101.2 mg/m <sup>3</sup> )  |
| MAK (AT)<br>from 11 Sept 2007        | <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6 | ① 10 ppm (67.5 mg/m <sup>3</sup> )   |
| MAK (AT)                             | <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7                | ② 800 ppm (2,000 mg/m <sup>3</sup> )<br>⑤ (max. 4x15 min./Schicht)   |
| MAK (AT)                             | <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7                | ① 200 ppm (500 mg/m <sup>3</sup> )   |
| MAK (AT)                             | <b>sodium hydroxide</b><br>CAS No.: 1310-73-2<br>EC No.: 215-185-5         | ② 4 mg/m <sup>3</sup><br>⑤ (einatembare Fraktion max. 8x5 min./Schicht, Momentanwert)  |
| MAK (AT)                             | <b>sodium hydroxide</b><br>CAS No.: 1310-73-2<br>EC No.: 215-185-5         | ① 2 mg/m <sup>3</sup><br>⑤ (einatembare Fraktion)  |

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

| Substance name   | DNEL value              | ① DNEL type<br>② Exposure route                               |
|--|-------------------------|---|
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6 | 40.5 mg/m <sup>3</sup>  | ① DNEL Consumer<br>② Long-term - inhalation, systemic effects |
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6 | 67.5 mg/m <sup>3</sup>  | ① DNEL worker<br>② Long-term - inhalation, local effects      |
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6 | 40.5 mg/m <sup>3</sup>  | ① DNEL Consumer<br>② Long-term - inhalation, local effects    |
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6 | 101.2 mg/m <sup>3</sup> | ① DNEL worker<br>② Acute - inhalation, local effects          |
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6 | 60.7 mg/m <sup>3</sup>  | ① DNEL Consumer<br>② Acute - inhalation, local effects        |

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| Substance name  | DNEL value             | ① DNEL type<br>② Exposure route                               |
|---|------------------------|---|
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6                                      | 83 mg/kg bw/<br>day    | ① DNEL worker<br>② Long-term - dermal, systemic effects       |
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6                                      | 50 mg/kg bw/<br>day    | ① DNEL Consumer<br>② Long-term - dermal, systemic effects     |
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6                                      | 6.25 mg/kg             | ① DNEL Consumer<br>② Long-term - oral, systemic effects       |
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6                                      | 5 mg/kg bw/<br>day     | ① DNEL Consumer<br>② Long-term - oral, systemic effects       |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7   | 500 mg/m <sup>3</sup>  | ① DNEL worker<br>② Long-term - inhalation, systemic effects   |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7   | 89 mg/m <sup>3</sup>   | ① DNEL Consumer<br>② Long-term - inhalation, systemic effects |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7   | 888 mg/kg bw/<br>day   | ① DNEL worker<br>② Long-term - dermal, systemic effects       |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7   | 319 mg/kg bw/<br>day   | ① DNEL Consumer<br>② Long-term - dermal, systemic effects     |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7   | 26 mg/kg bw/<br>day    | ① DNEL Consumer<br>② Long-term - oral, systemic effects       |
| <b>Benzenesulfonic acid, C10-13-alkyl<br/>derivs., sodium salts</b><br>CAS No.: 68411-30-3<br>EC No.: 270-115-0 | 12 mg/m <sup>3</sup>   | ① DNEL worker<br>② Long-term - inhalation, systemic effects   |
| <b>Benzenesulfonic acid, C10-13-alkyl<br/>derivs., sodium salts</b><br>CAS No.: 68411-30-3<br>EC No.: 270-115-0 | 12 mg/m <sup>3</sup>   | ① DNEL worker<br>② Long-term - inhalation, local effects      |
| <b>Benzenesulfonic acid, C10-13-alkyl<br/>derivs., sodium salts</b><br>CAS No.: 68411-30-3<br>EC No.: 270-115-0 | 170 mg/m <sup>3</sup>  | ① DNEL worker<br>② Long-term - dermal, systemic effects       |
| <b>sodium p-cumenesulphonate</b><br>CAS No.: 15763-76-5<br>EC No.: 239-854-6                                    | 53.6 mg/m <sup>3</sup> | ① DNEL worker<br>② Long-term - inhalation, systemic effects   |
| <b>sodium p-cumenesulphonate</b><br>CAS No.: 15763-76-5<br>EC No.: 239-854-6                                    | 13.2 mg/m <sup>3</sup> | ① DNEL Consumer<br>② Long-term - inhalation, systemic effects |
| <b>sodium p-cumenesulphonate</b><br>CAS No.: 15763-76-5<br>EC No.: 239-854-6                                    | 7.6 mg/kg bw/<br>day   | ① DNEL worker<br>② Long-term - dermal, systemic effects       |
| <b>sodium p-cumenesulphonate</b><br>CAS No.: 15763-76-5<br>EC No.: 239-854-6                                    | 3.8 mg/kg bw/<br>day   | ① DNEL Consumer<br>② Long-term - dermal, systemic effects     |
| <b>sodium p-cumenesulphonate</b><br>CAS No.: 15763-76-5<br>EC No.: 239-854-6                                    | 3.8 mg/kg bw/<br>day   | ① DNEL Consumer<br>② Long-term - oral, systemic effects       |
| <b>sodium hydroxide</b><br>CAS No.: 1310-73-2<br>EC No.: 215-185-5  | 1 mg/m <sup>3</sup>    | ① DNEL worker<br>② Long-term - inhalation, local effects      |

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| Substance name   | DNEL value          | ① DNEL type<br>② Exposure route                            |
|--|---------------------|--|
| <b>sodium hydroxide</b><br>CAS No.: 1310-73-2<br>EC No.: 215-185-5 | 1 mg/m <sup>3</sup> | ① DNEL Consumer<br>② Long-term - inhalation, local effects |

| Substance name   | PNEC Value | ① PNEC type                          |
|--|------------|--------------------------------------|
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6   | 1.1 mg/L   | ① PNEC aquatic, freshwater           |
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6   | 0.11 mg/L  | ① PNEC aquatic, marine water         |
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6   | 200 mg/L   | ① PNEC sewage treatment plant        |
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6   | 4.4 mg/kg  | ① PNEC sediment, freshwater          |
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6   | 0.44 mg/kg | ① PNEC sediment, marine water        |
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6   | 0.32 mg/kg | ① PNEC soil                          |
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6   | 56 mg/kg   | ① PNEC secondary poisoning           |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7                  | 140.9 mg/L | ① PNEC aquatic, freshwater           |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7                  | 140.9 mg/L | ① PNEC aquatic, marine water         |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7                  | 2,251 mg/L | ① PNEC sewage treatment plant        |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7                  | 552 mg/kg  | ① PNEC sediment, freshwater          |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7                  | 552 mg/kg  | ① PNEC sediment, marine water        |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7                  | 28 mg/kg   | ① PNEC soil                          |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7                  | 140.9 mg/L | ① PNEC aquatic, intermittent release |
| <b>sodium p-cumenesulphonate</b><br>CAS No.: 15763-76-5<br>EC No.: 239-854-6 | 100 mg/L   | ① PNEC sewage treatment plant        |

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No information available.

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### 8.2.2. Personal protection equipment



#### Eye/face protection:

Wear eye protection/face protection. (EN166)

#### Skin protection:

Hand protection:

Wear protective gloves. (EN374, Breakthrough time: >10 min)

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material  $\geq 0,1$  mm

A list of suitable makes with detailed information on wearing time is available on request.

Diluted application solutions  $\leq 1\%$ :

Protective gloves may be dispensed with, provided equivalent protective measures are taken, taking into account increased skin exposure due to wet work (e.g. use of suitable skin protection ointments).

Body protection:

Wear suitable work clothing.

#### Respiratory protection:

When using the HD method or spraying over large areas: combination filter A1/P2 (EN 143, EN 14387).

Use only in well-ventilated areas.

In case of inadequate ventilation wear respiratory protection.

#### Thermal hazards:

No further relevant information available.

#### Other protection measures:

Wear suitable work clothing.

### 8.2.3. Environmental exposure controls

Section 6: Accidental Release Measures

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Liquid

**Colour:** yellow-orange

**Odour:** characteristic

#### Safety relevant basis data

| Parameter                                    | Value                    | at °C | ① Method<br>② Remark |
|--|--------------------------|-------|----------------------|
| pH   | 13 - 14                  | 20 °C |                      |
| Melting point                                | $\approx 0$ °C           |       |                      |
| Freezing point                               | $\approx 0$ °C           |       |                      |
| Initial boiling point and boiling range      | $\approx 100$ °C         |       |                      |
| Decomposition temperature                    | <i>not applicable</i>    |       |                      |
| Flash point                                  | > 60 °C                  |       |                      |
| Evaporation rate                             | <i>No data available</i> |       |                      |
| Auto-ignition temperature                    | <i>not applicable</i>    |       |                      |
| Upper/lower flammability or explosive limits | <i>not applicable</i>    |       |                      |
| Vapour pressure                              | <i>No data available</i> |       |                      |
| Vapour density                               | <i>No data available</i> |       |                      |
| Density                                      | 1.05 g/cm <sup>3</sup>   | 20 °C |                      |
| Bulk density                                 | <i>not applicable</i>    |       |                      |
| Water solubility                             | completely miscible      | 20 °C |                      |
| Dynamic viscosity                            | < 10 mPa*s               | 25 °C |                      |



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| Parameter           | Value             | at °C | ① Method<br>② Remark |
|---------------------|-------------------|-------|----------------------|
| Kinematic viscosity | No data available |       |                      |

### 9.2. Other information

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Corrosive to metals.

Exothermic reaction with: Acid

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Corrosive to metals.

Exothermic reaction with: Acid

### 10.4. Conditions to avoid

The product is stable under storage at normal ambient temperatures.

### 10.5. Incompatible materials

Corrosive to metals. Acid

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|   |
|---|
| <b>2-(2-butoxyethoxy)ethanol</b> CAS No.: 112-34-5 EC No.: 203-961-6                                  |
| <b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat)   |
| <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat)   |
| <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >20 mg/L (Rat)                             |
| <b>Alkyl polyethoxilate</b> CAS No.: 68439-50-9   |
| <b>LD<sub>50</sub> oral:</b> 500 mg/kg (Rat)  |
| <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat)   |
| <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/L (Rat)                           |
| <b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7   |
| <b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat)   |
| <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat)   |
| <b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> >25 ppmV (Rat)                                |
| <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >20 mg/L (Rat)                             |
| <b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b> CAS No.: 68411-30-3 EC No.: 270-115-0 |
| <b>LD<sub>50</sub> oral:</b> 500 mg/kg (Rat)  |
| <b>LD<sub>50</sub> dermal:</b> >300 - 2,000 mg/kg (Rat) OECD 402                                      |
| <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/L (Rat)                           |
| <b>disodium metasilicate</b> CAS No.: 6834-92-0 EC No.: 229-912-9                                     |
| <b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat)   |
| <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat)   |
| <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/L (Rat)                           |

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|   |
|---|
| <b>sodium p-cumenesulphonate</b> CAS No.: 15763-76-5 EC No.: 239-854-6          |
| <b>LD<sub>50</sub> oral:</b> >7,000 mg/kg (Rat) OECD 401                        |
| <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Kaninchen)                         |
| <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >20 mg/L (Rat)       |
| <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/L (Rat)     |
| <b>sodium hydroxide</b> CAS No.: 1310-73-2 EC No.: 215-185-5                    |
| <b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat)                                 |
| <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat)                               |
| <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/L           |
| <b>Beta-alanine, N-cocoalkyl, Na salt</b> CAS No.: 68608-68-4 EC No.: 271-795-1 |
| <b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat)                                 |
| <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat)                               |
| <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/L           |

### Acute oral toxicity:

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

### Acute dermal toxicity:

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

### Acute inhalation toxicity:

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

### Skin corrosion/irritation:

Causes severe skin burns and eye damage.

### Serious eye damage/irritation:

Causes serious eye damage.

### Respiratory or skin sensitisation:

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

### Germ cell mutagenicity:

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

### Carcinogenicity:

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

### Reproductive toxicity:

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

### 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.

## 11.2. Information on other hazards

### Endocrine disrupting properties:

No information available.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

|   |
|---|
| <b>2-(2-butoxyethoxy)ethanol</b> CAS No.: 112-34-5 EC No.: 203-961-6                                  |
| LC <sub>50</sub> : 2,780 mg/L 4 d (fish, Pimephales promelas)   |
| LC <sub>50</sub> : 1,300 mg/L 4 d (fish, Lepomis macrochirus)   |
| EC <sub>50</sub> : >100 mg/L 2 d (crustaceans, Daphnia magna)   |
| ErC <sub>50</sub> : >100 mg/L (Algae/water plant, Scenedesmus subspicatus)                            |
| EC <sub>50</sub> : 4,950 mg/L 2 d (crustaceans, Daphnia magna)  |
| ErC <sub>50</sub> : >100 mg/L (Algae/water plant, Scenedesmus subspicatus)                            |
| EC <sub>50</sub> : 4,950 mg/L (crustaceans)   |
| <b>Alkyl polyethoxilate</b> CAS No.: 68439-50-9   |
| LC <sub>50</sub> : >1 mg/L 4 d (fish)   |
| EC <sub>50</sub> : >1 mg/L 2 d (crustaceans)  |
| ErC <sub>50</sub> : >1 mg/L (Algae/water plant)   |
| <b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7   |
| LC <sub>50</sub> : 9,640 mg/L 4 d (fish, Pimephales promelas)   |
| LC <sub>50</sub> : >1,000 mg/L 4 d (fish)   |
| EC <sub>50</sub> : >100 mg/L (Algae/water plant)  |
| EC <sub>50</sub> : >100 mg/L 2 d (crustaceans, Daphnia magna)   |
| EC <sub>50</sub> : >1,000 mg/L 2 d (crustaceans)  |
| ErC <sub>50</sub> : >100 mg/L 3 d (Algae/water plant, Desmodemus subspicatus)                         |
| LOEC: 1,000 mg/L (Algae/water plant, Algae)   |
| LC <sub>50</sub> : 8,970 mg/L 2 d (fish, Leuciscus idus (golden orfe))                                |
| <b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b> CAS No.: 68411-30-3 EC No.: 270-115-0 |
| LC <sub>50</sub> : >1 mg/L 4 d (fish)   |
| EC <sub>50</sub> : >1 mg/L 2 d (crustaceans)  |
| NOEC: 0.25 mg/L (fish)  |
| NOEC: 2.4 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)                                       |
| ErC <sub>50</sub> : >1 mg/L (Algae/water plant)   |
| LOEC: 0.51 mg/L (Algae/water plant, Scenedesmus subspicatus)  |
| <b>disodium metasilicate</b> CAS No.: 6834-92-0 EC No.: 229-912-9                                     |
| LC <sub>50</sub> : 210 mg/L 4 d (fish, Danio rerio)   |
| EC <sub>50</sub> : 1,700 mg/L 2 d (crustaceans, Daphnia magna)  |
| LC <sub>50</sub> : 210 mg/L 4 d (fish, Danio rerio (zebrafish))                                       |
| EC <sub>50</sub> : 1,700 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))                       |
| <b>sodium p-cumenesulphonate</b> CAS No.: 15763-76-5 EC No.: 239-854-6                                |
| LC <sub>50</sub> : >100 mg/L 4 d (fish, Cyprinus carpio)  |
| EC <sub>50</sub> : >100 mg/L 2 d (crustaceans, Daphnia magna)   |
| NOEC: 31 mg/L   |
| <b>sodium hydroxide</b> CAS No.: 1310-73-2 EC No.: 215-185-5  |
| LC <sub>50</sub> : 125 mg/L 4 d (fish, Poecilia reticulata)   |
| EC <sub>50</sub> : 40.4 mg/L 2 d (crustaceans, Daphnia magna)   |
| LC <sub>50</sub> : 125 mg/L 4 d (fish, Gambusia affinis (Mosquito fish))                              |
| EC <sub>50</sub> : 40.4 mg/L 2 d (fish, Ceriodaphnia spec)  |
| <b>Beta-alanine, N-cocoalkyl, Na salt</b> CAS No.: 68608-68-4 EC No.: 271-795-1                       |
| LC <sub>50</sub> : 420 mg/L 4 d   |
| EC <sub>50</sub> : 97.5 mg/L 2 d  |

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### 12.2. Persistence and degradability

|   |
|---|
| <b>2-(2-butoxyethoxy)ethanol</b> CAS No.: 112-34-5 EC No.: 203-961-6                                  |
| <b>Biodegradation:</b> Yes, rapidly   |
| <b>Remark:</b> Readily biodegradable (according to OECD criteria).                                    |
| <b>Alkyl polyethoxilate</b> CAS No.: 68439-50-9   |
| <b>Biodegradation:</b> Yes, rapidly   |
| <b>Remark:</b> Readily biodegradable (according to OECD criteria).                                    |
| <b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7   |
| <b>Biodegradation:</b> Yes, rapidly   |
| <b>Remark:</b> Readily biodegradable (according to OECD criteria).                                    |
| <b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b> CAS No.: 68411-30-3 EC No.: 270-115-0 |
| <b>Biodegradation:</b> Yes, rapidly   |
| <b>sodium p-cumenesulphonate</b> CAS No.: 15763-76-5 EC No.: 239-854-6                                |
| <b>Biodegradation:</b> Yes, rapidly   |
| <b>Beta-alanine, N-cocoalkyl, Na salt</b> CAS No.: 68608-68-4 EC No.: 271-795-1                       |
| <b>Biodegradation:</b> Yes, rapidly   |

#### Additional information:

The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

### 12.3. Bioaccumulative potential

|  |
|--|
| <b>2-(2-butoxyethoxy)ethanol</b> CAS No.: 112-34-5 EC No.: 203-961-6   |
| <b>Log K<sub>ow</sub>:</b> 0.56  |
| <b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7                  |
| <b>Log K<sub>ow</sub>:</b> 0.05  |
| <b>sodium p-cumenesulphonate</b> CAS No.: 15763-76-5 EC No.: 239-854-6 |
| <b>Log K<sub>ow</sub>:</b> -1.1  |

#### Accumulation / Evaluation:

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

|   |
|---|
| <b>2-(2-butoxyethoxy)ethanol</b> CAS No.: 112-34-5 EC No.: 203-961-6                                  |
| <b>Results of PBT and vPvB assessment:</b> —  |
| <b>Alkyl polyethoxilate</b> CAS No.: 68439-50-9   |
| <b>Results of PBT and vPvB assessment:</b> —  |
| <b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7   |
| <b>Results of PBT and vPvB assessment:</b> —  |
| <b>Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts</b> CAS No.: 68411-30-3 EC No.: 270-115-0 |
| <b>Results of PBT and vPvB assessment:</b> —  |
| <b>disodium metasilicate</b> CAS No.: 6834-92-0 EC No.: 229-912-9                                     |
| <b>Results of PBT and vPvB assessment:</b> —  |
| <b>sodium p-cumenesulphonate</b> CAS No.: 15763-76-5 EC No.: 239-854-6                                |
| <b>Results of PBT and vPvB assessment:</b> —  |
| <b>sodium hydroxide</b> CAS No.: 1310-73-2 EC No.: 215-185-5  |
| <b>Results of PBT and vPvB assessment:</b> —  |
| <b>Beta-alanine, N-cocoalkyl, Na salt</b> CAS No.: 68608-68-4 EC No.: 271-795-1                       |
| <b>Results of PBT and vPvB assessment:</b> —  |
| <b>Nonionic surfactants</b>   |
| <b>Results of PBT and vPvB assessment:</b> —  |

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The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation. Delivery to an approved waste disposal company.

#### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

|            |  |
|------------|--|
| 07 06 01 * | aqueous washing liquids and mother liquors |
|------------|--|

\*: Evidence for disposal must be provided.

##### Waste code packaging





|          |                   |
|----------|-------------------|
| 15 01 02 | Plastic packaging |
|----------|-------------------|

### Waste treatment options

#### Appropriate disposal / Package:

Non-contaminated packages may be recycled.

## SECTION 14: Transport information

| Land transport (ADR/RID)  | Inland waterway craft (ADN)   | Sea transport (IMDG)   | Air transport (ICAO-TI / IATA-DGR)   |
|---|---|--|--|
| <b>14.1. UN number or ID number</b>   |   |  |  |
| UN 1824   | UN 1824   | UN 1824  | UN 1824  |
| <b>14.2. UN proper shipping name</b>  |   |  |  |
| SODIUM HYDROXIDE SOLUTION   | SODIUM HYDROXIDE SOLUTION   | SODIUM HYDROXIDE, SOLUTION   | SODIUM HYDROXIDE, SOLUTION   |
| <b>14.3. Transport hazard class(es)</b>   |   |  |  |
| <br>8  | <br>8                            | <br>8   | <br>8   |
| <b>14.4. Packing group</b>  |   |  |  |
| III   | III   | III  | III  |
| <b>14.5. Environmental hazards</b>  |   |  |  |
| No  | No  | No   | No   |
| <b>14.6. Special precautions for user</b>   |   |  |  |
| <b>Limited quantity (LQ):</b><br>5 L<br><b>Excepted Quantities (EQ):</b><br>E1<br><b>Hazard identification number (Kemler No.):</b><br>80<br><b>Classification code:</b><br>C5<br><b>Tunnel restriction code:</b><br>(E)<br><b>Remark:</b><br>Transport category: 3 | <b>Limited quantity (LQ):</b><br>5 L<br><b>Excepted Quantities (EQ):</b><br>E1<br><b>Classification code:</b><br>C5 | <b>Special Provisions:</b><br>223<br><b>Limited quantity (LQ):</b><br>5 L<br><b>Excepted Quantities (EQ):</b><br>E1<br><b>EmS-No.:</b><br>F-A, S-B | <b>Special Provisions:</b><br>A3   A803<br><b>Limited quantity (LQ):</b><br>Y841<br><b>Excepted Quantities (EQ):</b><br>E1<br><b>Remark:</b><br>IATA Packing Instructions - Passenger: 852<br>IATA Maximum Quantity - Passenger: 5 L<br>IATA-Verpackungsanweisung - Cargo: 856 |

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| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR)  |
|--------------------------|-----------------------------|----------------------|-------------------------------------|
|                          |                             |                      | IATA Maximum Quantity - Cargo: 60 L |

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Restrictions on use:

Restrictions on use (REACH, Annex XVII) Entry 3, Entry 40, Entry 55, Entry 75

##### Other regulations (EU):

Regulation (EC) No. 648/2004 [Detergents regulation]

##### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 5.3 Vol-%

#### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

|                  |   |
|------------------|---|
| ACGIH            | American Conference of Governmental Industrial Hygienists                                       |
| 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             |
| CAS              | Chemical Abstracts Service  |
| CLP              | Classification, Labelling and Packaging   |
| DNEL             | derived no-effect level   |
| EN               | European Standard   |
| ES               | Exposure scenario   |
| EWC              | European Waste Catalogue  |
| ICAO             | International Civil Aviation Organization   |
| IMDG             | International Maritime Dangerous Goods  |
| IMO              | International Maritime Organization   |
| LC <sub>50</sub> | Lethal (fatal) Concentration 50%  |
| LD <sub>50</sub> | Lethal (fatal) Dose 50%   |
| MAK              | Maximum concentration in the workplace air (CH)   |
| NFPA             | National Fire Protection Association  |
| NIOSH            | National Institute for Occupational Safety & Health   |
| OSHA             | Occupational Safety & Health Administration   |
| PBT              | persistent and bioaccumulative and toxic  |
| PC               | Product category  |
| PNEC             | Predicted No Effect Concentration   |
| PROC             | Process Category  |
| REACH            | Registration, Evaluation and Authorization of Chemicals   |
| RID              | Dangerous goods regulations for transport by rail   |
| TRGS             | Technische Regeln für Gefahrstoffe  |
| UN               | United Nations  |

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### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

| Hazard classes and hazard categories               | Hazard statements                              | Classification procedure |
|--|--|--------------------------|
| Corrosive to metals ( <i>Met. Corr. 1</i> )        | H290: May be corrosive to metals.              |                          |
| Skin corrosion/irritation ( <i>Skin Corr. 1B</i> ) | H314: Causes severe skin burns and eye damage. |                          |

### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

| Hazard statements |  |
|-------------------|--|
| H290              | May be corrosive to metals.                        |
| 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.                     |
| H335              | May cause respiratory irritation.                  |
| H412              | Harmful to aquatic life with long lasting effects. |

### 16.6. Training advice

No data available

### 16.7. Additional information

No data available