

# SAFETY DATA SHEET

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

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## Biotex 200l

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

#### 1.1. Product identifier

**Trade name/designation:**

Biotex 200l

**Article No.:**

T103200

**UFI:**

CHYJ-3E2R-R09A-QT1S

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

**Use of the substance/mixture:**

EuPCS: PC-CLN-2 All-purpose (or multi-purpose) cleaner, non-abrasive Process categories [PROC]: 8, 10, 11 Restricted to professional users.

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

**Supplier:**

**Techniqua Handels GmbH**

Hartleitnerstraße 3

4653 Eberstalzell

Austria

**Telephone:** +43 (0) 7241 213 79

**E-mail:** office@techniqua.at

**Supplier:**

**TECH-MASTERS Austria GmbH**

Kallham 7

4720 Kallham

Austria

**Telephone:** +43 7733 20090

**Telefax:** +43 7733 20092

**E-mail:** info@tech-masters.at

**Website:** www.tech-masters.eu/at

#### 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. 1</i> )       | H314: Causes severe skin burns and eye damage. |                          |
| Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> ) | H318: Causes serious 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/eye protection/face protection/hearing protection/ .

#### Precautionary statements Response

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/doctor/ .

### 2.3. Other hazards

#### Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.

## 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       |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| CAS No.: 78330-21-9<br>EC No.: 616-609-5                                                             | <b>Alkyl polyethoxilate</b><br>Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318)<br>Danger                                                                                                                                                                                             | 1 - < 5<br>weight-% |
| CAS No.: 67-63-0<br>EC No.: 200-661-7<br>Index No.: 603-117-00-0<br>REACH No.:<br>01-2119457558-25   | <b>propan-2-ol</b><br>Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)<br>Danger                                                                                                                                                                                                            | 1 - < 5<br>weight-% |
| CAS No.: 112-34-5<br>EC No.: 203-961-6<br>Index No.: 603-096-00-8<br>REACH No.:<br>01-2119475104-44  | <b>2-(2-butoxyethoxy)ethanol</b><br>Eye Irrit. 2 (H319)<br>Warning                                                                                                                                                                                                                                    | 1 - < 5<br>weight-% |
| 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>Danger                                                                                                                                | 1 - < 5<br>weight-% |
| 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 ≥ 5%<br>Skin Corr. 1B; H314: 2% ≤ C < 5%<br>Skin Irrit. 2; H315: 0.5% ≤ C < 2%<br>Eye Dam. 1; H318: C ≥ 2%<br>Eye Irrit. 2; H319: 0.5% ≤ C < 2% | < 1<br>weight-%     |

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

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### 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 out mouth immediately and drink plenty of water. Do NOT induce vomiting.

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

No data 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.

### SECTION 6: Accidental release measures

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

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

**Personal precautions:**

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

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### 6.4. Reference to other sections

No data available

## 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. The usual precautions when handling chemicals must be observed. Do not eat, drink, smoke or snort while working. Do not inhale dust/fume/mist. Keep away from food, drink and animal feed. Wash hands before breaks and at the end of work. When using the HD method or spraying over large areas: Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. Absorb spillage to prevent material damage.

##### 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.

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

#### Requirements for storage rooms and vessels:

Keep container tightly closed. Keep/Store only in original container.

#### 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.

### 7.3. Specific end use(s)

#### Recommendation:

Cleaning agent GISCODE/Produkt-Code: GG 70

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

| Limit value type<br>(country of<br>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)                                   | <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)<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> )                                                                                                                                             |

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| Limit value type<br>(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)                                | <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>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/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/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/day         | 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 | 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        |
| <b>2-(2-butoxyethoxy)ethanol</b><br>CAS No.: 112-34-5<br>EC No.: 203-961-6 | 83 mg/kg bw/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/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/day          | ① DNEL Consumer<br>② Long-term - oral, systemic effects       |

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| Substance name                                                                                              | DNEL value            | ① DNEL type<br>② Exposure route                             |
|-------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------|
| <b>Benzenesulfonic acid, C10-13-alkyl 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 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 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 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    |
| <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>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>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                          |

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| Substance name                                                      | PNEC Value | ① PNEC type                |
|---------------------------------------------------------------------|------------|----------------------------|
| 2-(2-butoxyethoxy)ethanol<br>CAS No.: 112-34-5<br>EC No.: 203-961-6 | 56 mg/kg   | ① PNEC secondary poisoning |

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available

#### 8.2.2. Personal protection equipment



##### Eye/face protection:

Wear eye/face protection. (EN 166)

##### Skin protection:

Hand protection Wear suitable protective clothing when working.>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).

##### Thermal hazards:

No further relevant information available.

#### 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: orange

Odour: Perfumes, fragrances

#### Safety relevant basis data

| Parameter                                    | Value               | at °C | ① Method<br>② Remark |
|----------------------------------------------|---------------------|-------|----------------------|
| pH                                           | 11.5 - 12.5         | 20 °C |                      |
| Melting point                                | No data available   |       |                      |
| Freezing point                               | No data available   |       |                      |
| Initial boiling point and boiling range      | 100 °C              |       |                      |
| Flash point                                  | > 60 °C             |       |                      |
| Evaporation rate                             | No data available   |       |                      |
| Auto-ignition temperature                    | No data available   |       |                      |
| Upper/lower flammability or explosive limits | No data available   |       |                      |
| Vapour pressure                              | No data available   |       |                      |
| Vapour density                               | No data available   |       |                      |
| Density                                      | 1 g/cm <sup>3</sup> | 20 °C |                      |
| Bulk density                                 | not applicable      |       |                      |
| Water solubility                             | No data available   |       |                      |
| Dynamic viscosity                            | < 10 mPa·s          | 25 °C |                      |
| Kinematic viscosity                          | No data available   |       |                      |



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### 9.2. Other information

No data 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>Alkyl polyethoxilate</b>                                                 | CAS No.: 78330-21-9 | EC No.: 616-609-5 |
| <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 (vapour):</b> >5 mg/L (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>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>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>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       |                     |                   |

### Skin corrosion/irritation:

Causes severe skin burns and eye damage.

### Serious eye damage/irritation:

Causes serious eye damage.

### Carcinogenicity:

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

### STOT-single exposure:

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



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### 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

#### Other information:

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                                 |                     |                                                  |
|-----------------------------------------------------------------|---------------------|--------------------------------------------------|
| <b>Alkyl polyethoxilate</b>                                     | CAS No.: 78330-21-9 | EC No.: 616-609-5                                |
| 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, Desmodesmus subspicatus) |
| LOEC:                                                           | 1,000 mg/L          | (Algae/water plant, Algae)                       |
| <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>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>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)                    |

### 12.2. Persistence and degradability

|                             |                                                     |                   |
|-----------------------------|-----------------------------------------------------|-------------------|
| <b>Alkyl polyethoxilate</b> | CAS No.: 78330-21-9                                 | EC No.: 616-609-5 |
| Biodegradation:             | Yes, rapidly                                        |                   |
| Remark:                     | Readily biodegradable (according to OECD criteria). |                   |
| <b>propan-2-ol</b>          | CAS No.: 67-63-0                                    | EC No.: 200-661-7 |
| Biodegradation:             | Yes, rapidly                                        |                   |
| Remark:                     | Readily biodegradable (according to OECD criteria). |                   |

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**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6

**Biodegradation:** Yes, rapidly

**Remark:** Readily biodegradable (according to OECD criteria).

**Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts** CAS No.: 68411-30-3 EC No.: 270-115-0

**Biodegradation:** Yes, rapidly

### Biodegradation:

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

**propan-2-ol** CAS No.: 67-63-0 EC No.: 200-661-7

**Log K<sub>OW</sub>:** 0.05

**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6

**Log K<sub>OW</sub>:** 0.56

### Bioconcentration factor (BCF):

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

**Alkyl polyethoxilate** CAS No.: 78330-21-9 EC No.: 616-609-5

**Results of PBT and vPvB assessment:** —

**propan-2-ol** CAS No.: 67-63-0 EC No.: 200-661-7

**Results of PBT and vPvB assessment:** —

**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6

**Results of PBT and vPvB assessment:** —

**Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts** CAS No.: 68411-30-3 EC No.: 270-115-0

**Results of PBT and vPvB assessment:** —

**sodium hydroxide** CAS No.: 1310-73-2 EC No.: 215-185-5

**Results of PBT and vPvB assessment:** —

### 12.6. Endocrine disrupting properties

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

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### 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

## SECTION 14: Transport information

**Land transport (ADR/RID)**

**Inland waterway craft (ADN)**

**Sea transport (IMDG)**

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

### 14.1. UN number or ID number

UN 1719

UN 1719

UN 1719

UN 1719

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| Land transport (ADR/RID)                                                                                                                                                                                                                                          | Inland waterway craft (ADN)                                                                                                                                  | Sea transport (IMDG)                                                                                                                                   | Air transport (ICAO-TI / IATA-DGR)                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>14.2. UN proper shipping name</b>                                                                                                                                                                                                                              |                                                                                                                                                              |                                                                                                                                                        |                                                                                                                              |
| ÄTZENDER ALKALISCHER FLÜSSIGER STOFF, N.A.G. (Natriumhydroxid) (Natriumhydroxid)                                                                                                                                                                                  | ÄTZENDER ALKALISCHER FLÜSSIGER STOFF, N.A.G. (Natriumhydroxid) (Natriumhydroxid)                                                                             | CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide)                                                                                                       | CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide)                                                                             |
| <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 data available                                                                                                                                                                                                                                                 | No data available                                                                                                                                            | No data available                                                                                                                                      | No data available                                                                                                            |
| <b>14.6. Special precautions for user</b>                                                                                                                                                                                                                         |                                                                                                                                                              |                                                                                                                                                        |                                                                                                                              |
| <b>Special Provisions:</b><br>Keine besonderen Vorsichtsmaßnahmen erforderlich.<br><b>Limited quantity (LQ):</b><br>5 L<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) | <b>Special Provisions:</b><br>Keine besonderen Vorsichtsmaßnahmen erforderlich.<br><b>Limited quantity (LQ):</b><br>5 L<br><b>Classification code:</b><br>C5 | <b>Special Provisions:</b><br>Keine besonderen Vorsichtsmaßnahmen erforderlich.<br><b>Limited quantity (LQ):</b><br>5 L<br><b>EmS-No.:</b><br>F-A, S-B | <b>Special Provisions:</b><br>Keine besonderen Vorsichtsmaßnahmen erforderlich.<br><b>Limited quantity (LQ):</b><br>1 L Y841 |

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

No data available

## SECTION 15: Regulatory information

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

No data available

### 15.2. Chemical Safety Assessment

No data available

## 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             |
| BCF              | Bioconcentration Factor                                                                         |
| CAS              | Chemical Abstracts Service                                                                      |
| CLP              | Classification, Labelling and Packaging                                                         |
| DNEL             | derived no-effect level                                                                         |
| EC <sub>50</sub> | Effective Concentration 50%                                                                     |
| EN               | European Standard                                                                               |
| ES               | Exposure scenario                                                                               |

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|                  |                                                         |
|------------------|---------------------------------------------------------|
| EWC              | European Waste Catalogue                                |
| ICAO             | International Civil Aviation Organization               |
| IMDG             | International Maritime Dangerous Goods                  |
| IMO              | International Maritime Organization                     |
| KG               | body weight                                             |
| 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     |
| NOEC             | No Observed Effect Concentration                        |
| OECD             | Organisation for Economic Cooperation and Development   |
| 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       |
| SCL              | Specific concentration limit                            |
| TRGS             | Technische Regeln für Gefahrstoffe                      |
| UN               | United Nations                                          |
| ZNS              | central nervous system                                  |

### 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. 1</i> )       | H314: Causes severe skin burns and eye damage. |                          |
| Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> ) | H318: Causes serious eye damage.               |                          |

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

| Hazard statements |                                                    |
|-------------------|----------------------------------------------------|
| H225              | Highly flammable liquid and vapour.                |
| 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.                     |
| H336              | May cause drowsiness or dizziness.                 |
| H412              | Harmful to aquatic life with long lasting effects. |

### 16.6. Training advice

No data available

### 16.7. Additional information

No data available