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:
G7PN-VME5-4YKA-Y6TE

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

Use of the substance/mixture:
All-purpose (or multi-purpose) non-abrasive cleaners including degreasing agents (unless otherwise specified in other subcategories of cleaning products)

Relevant identified uses:

Process categories [PROC]

PROC 8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC 8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC 10: Roller application or brushing
PROC 11: Non industrial spraying

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 *(Met. Corr. 1)*	H290: May be corrosive to metals.	
Skin corrosion/irritation *(Skin Corr. 1)*	H314: Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation *(Eye Dam. 1)*	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

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 substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII. spray application: Avoid breathing spray.

SECTION 3: Composition/information on ingredients

*

3.2. Mixtures

Additional information:
Ingredients according to detergents guidline 648/2004/EC: < 5% non-ionic surfactants, < 5%anionic surfactants, Fragrances

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 78330-21-9 EC No.: 616-609-5	**Alkyl polyethoxilate** Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318) Danger **Acute Toxicity Estimate** ATE (oral) 500 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) > 5 mg/L	1 – < 5 %
CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH No.: 01-2119457558-25	**propan-2-ol** Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) > 25 ppmV ATE (inhalation, vapour) > 20 mg/L ATE (inhalation, dust/mist) 46,600 mg/L	1 – < 5 %
CAS No.: 112-34-5 EC No.: 203-961-6 Index No.: 603-096-00-8 REACH No.: 01-2119475104-44	**2-(2-butoxyethoxy)ethanol** Eye Irrit. 2 (H319) Warning **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 20 mg/L	1 – < 5 %
CAS No.: 68411-30-3 EC No.: 270-115-0 REACH No.: 01-2119489428-22	**Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts** Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318), Skin Irrit. 2 (H315) Danger **Acute Toxicity Estimate** ATE (oral) 500 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) > 5 mg/L	1 – < 5 %
CAS No.: 1310-73-2 EC No.: 215-185-5 Index No.: 011-002-00-6 REACH No.: 01-2119457892-27	**sodium hydroxide** Eye Dam. 1 (H318), Met. Corr. 1 (H290), Skin Corr. 1A (H314) Danger **Specific concentration limit (SCL)** Skin Corr. 1A; H314: C ≥ 5% Skin Corr. 1B; H314: 2% ≤ C < 5% Skin Irrit. 2; H315: 0.5% ≤ C < 2% Eye Dam. 1; H318: C ≥ 2% Eye Irrit. 2; H319: 0.5% ≤ C < 2% **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg	< 0.1 %

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 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.

General information Use personal protection equipment. Avoid contact with skin, eyes and clothes.

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
For further information on personal protective equipment: see section 8.
For further information on 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. Do not eat, drink or smoke when using this product. When using the HD method or spraying over large areas: Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas.

Additional information Handling: 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. Do not eat, drink or smoke when using this product.

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

7.3. Specific end use(s)

Industrial sector specific solutions:

Cleaning agent

GISCODE:

GG70

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 ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	**propan-2-ol** CAS No.: 67-63-0 EC No.: 200-661-7	② 800 ppm (2,000 mg/m³) ⑤ (max. 4x15 min./Schicht)
MAK (AT)	**propan-2-ol** CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm (500 mg/m³)
MAK (AT) from 11 Sept 2007	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	② 15 ppm (101.2 mg/m³) ⑤ (max. 4x15 min./Schicht)
IOELV (EU)	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³) ② 15 ppm (101.2 mg/m³)
MAK (AT) from 11 Sept 2007	**2-(2-butoxyethoxy)ethanol** CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67.5 mg/m³)
MAK (AT)	**sodium hydroxide** CAS No.: 1310-73-2 EC No.: 215-185-5	② 4 mg/m³ ⑤ (einatembare Fraktion max. 8x5 min./Schicht, Momentanwert)

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	**sodium hydroxide** CAS No.: 1310-73-2 EC No.: 215-185-5	① 2 mg/m³ 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 ② Exposure route
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	500 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	89 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	888 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	319 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	26 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	40.5 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	67.5 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	40.5 mg/m³	① DNEL Consumer ② Long-term – inhalation, local effects
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	101.2 mg/m³	① DNEL worker ② Acute - inhalation, local effects
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	60.7 mg/m³	① DNEL Consumer ② Acute - inhalation, local effects
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	83 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	50 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	6.25 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	5 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS No.: 68411-30-3 EC No.: 270-115-0	12 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS No.: 68411-30-3 EC No.: 270-115-0	12 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS No.: 68411-30-3 EC No.: 270-115-0	170 mg/m³	① DNEL worker ② Long-term - dermal, systemic effects
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	1 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	1 mg/m³	① DNEL Consumer ② Long-term – inhalation, local effects

Substance name	PNEC Value	① PNEC type
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	2,251 mg/L	① PNEC sewage treatment plant
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	28 mg/kg	① PNEC soil
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, intermittent release
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	1.1 mg/L	① PNEC aquatic, freshwater
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	0.11 mg/L	① PNEC aquatic, marine water
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	200 mg/L	① PNEC sewage treatment plant
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	4.4 mg/kg	① PNEC sediment, freshwater
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	0.44 mg/kg	① PNEC sediment, marine water
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	0.32 mg/kg	① PNEC soil

Substance name	PNEC Value	① PNEC type
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 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 protection/face protection. EN 166

Skin protection:
Hand protection:
Wear protective gloves. EN ISO 374. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.
Glove material: NBR (Nitrile rubber). Thickness of the glove material ≥ 0,1 mm
A list of suitable makes with detailed information on wearing time is available on request.
Diluted application solutions <= 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:
Usually no personal respirative protection necessary. spray application: Avoid breathing spray.

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
flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	11.5 – 12.5	20 °C	
Melting point	0 °C		
Freezing point	0 °C		
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/cm³	20 °C	
Bulk density	*not applicable*		

Parameter	Value	at °C	① Method ② Remark
Water solubility	completely miscible	20 °C	
Dynamic viscosity	< 10 mPa* s	25 °C	② (50 1/s)
Kinematic viscosity	*No data available*		

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

Alkyl polyethoxilate CAS No.: 78330-21-9 EC No.: 616-609-5
LD_{50} oral: 500 mg/kg (Rat)
LD_{50} dermal: >2,000 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (dust/mist): >5 mg/L (Rat)
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LD_{50} oral: >2,000 mg/kg (Rat)
LD_{50} dermal: >2,000 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat)
LC_{50} Acute inhalation toxicity (vapour): >20 mg/L 6 h (Rat)
LC_{50} Acute inhalation toxicity (dust/mist): 46,600 mg/L (Rat)
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
LD_{50} oral: >2,000 mg/kg (Rat)
LD_{50} dermal: >2,000 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (vapour): >20 mg/L (Rat)
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS No.: 68411-30-3 EC No.: 270-115-0
LD_{50} oral: 500 mg/kg (Rat)
LD_{50} dermal: >2,000 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (dust/mist): >5 mg/L (Rat)
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5
LD_{50} oral: >2,000 mg/kg (Rat)
LD_{50} dermal: >2,000 mg/kg (Ratte)

Skin corrosion/irritation:
Causes skin burns.

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
No data available

SECTION 12: Ecological information

12.1. Toxicity

Alkyl polyethoxilate CAS No.: 78330-21-9 EC No.: 616-609-5
LC_{50}: >1 mg/L 4 d (fish)
EC_{50}: >1 mg/L 2 d (crustaceans)
ErC_{50}: >1 mg/L (Algae/water plant)
LC_{50}: >1 – 10 mg/L 4 d (fish, Danio rerio (zebrafish)) OECD 203
EC_{50}: 7.07 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202
ErC_{50}: >10 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LC_{50}: >1,000 mg/L 4 d (fish)
LC_{50}: 9,640 mg/L 4 d (fish, Pimephales promelas)
LC_{50}: 9,714 mg/L 1 d (Daphnia magna)
EC_{50}: >1,000 mg/L 2 d (crustaceans)
EC_{50}: >100 mg/L (Algae/water plant, Bacteria)
EC_{50}: >100 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: >1,000 mg/L 28 d (fish, Danio rerio)
NOEC: >1,000 mg/L 21 d (crustaceans, Daphnia magna)
ErC_{50}: >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
ErC_{50}: >100 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)
LOEC: 1,000 mg/L (Alge)
LOEC: 1,000 mg/L (Algae/water plant, Algae)
LOEC: 1,000 mg/L
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6
LC_{50}: 2,780 mg/L 4 d (fish, Pimephales promelas)
EC_{50}: 4,950 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
ErC_{50}: >100 mg/L (Algae/water plant, Scenedesmus subspicatus)
EC_{50}: >100 mg/L 2 d (Daphnia magna) OECD 202
ErC_{50}: >100 mg/L (Algae/water plant, Scenedesmus sp.) OECD 201
EC_{50}: >100 mg/L 2 d (crustaceans, Daphnia magna)
ErC_{50}: >100 mg/L (Algae/water plant, Scenedesmus sp.)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS No.: 68411-30-3 EC No.: 270-115-0	
LC_{50}: >1 mg/L 4 d (fish)	
EC_{50}: >1 mg/L 2 d (crustaceans)	
ErC_{50}: >1 mg/L (Algae/water plant)	
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	
LC_{50}: 125 mg/L 4 d (fish, Gambusia affinis (Mosquito fish))	
EC_{50}: 40.4 mg/L 2 d (crustaceans, Ceriodaphnia dubia)	

12.2. Persistence and degradability

Alkyl polyethoxilate CAS No.: 78330-21-9 EC No.: 616-609-5	
Biodegradation: Yes, rapidly	
Remark: Readily biodegradable (according to OECD criteria).	
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	
Biodegradation: Yes, rapidly	
Remark: Readily biodegradable (according to OECD criteria).	
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	
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	
Biodegradation: 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

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	
Log K_{OW}: 0.05	
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	
Log K_{OW}: 0.56	

Bioconcentration factor (BCF):
No indication of bioaccumulation potential.

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

* 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: —	

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

12.6. Endocrine disrupting properties
This product does not contain any substance that exhibits endocrine disrupting properties towards non-target organisms, as no ingredient fulfills the criteria.

* **12.7. Other adverse effects**

water hazard class 1: slightly hazardous to water

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)
14.1. UN number or ID number			
UN 1719	UN 1719	UN 1719	UN 1719
14.2. UN proper shipping name			
CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide)	CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide)	CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide)	CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide)
14.3. Transport hazard class(es)			
 8	 8	 8	 8
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
No	No	No	No
* **14.6. Special precautions for user**			
Special Provisions: 274 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **Hazard identification number (Kemler No.):** 80 **Classification code:** C5 **Tunnel restriction code:** (E) **Remark:** Transport category 3	**Special Provisions:** 274 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **Classification code:** C5	**Special Provisions:** 223, 274 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **EmS-No.:** F-A, S-B **Remark:** IMDG-Code segregation group 18 - Alkalis	**Special Provisions:** A3 A803 **Limited quantity (LQ):** 1 L Y841 **Excepted Quantities (EQ):** E1 **Remark:** IATA Packing Instructions - Passenger: 852 IATA Maximum Quantity - Passenger: 5L IATA-Verpackungsanweisung - Cargo: 856 IATA Maximum Quantity - Cargo: 60L

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
Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]: 2,2 %
Additional information: Regulation (EC) No. 648/2004 [Detergents regulation]

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

Volatile organic compound (VOC) content: 2.2 weight-%

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

* **16.1. Indication of changes**

1.2.	Relevant identified uses of the substance or mixture and uses advised against
2.1.	Classification of the substance or mixture
3.2.	Mixtures
8.1.	Control parameters
8.2.	Exposure controls
12.5.	Results of PBT and vPvB assessment
12.7.	Other adverse effects
14.6.	Special precautions for user
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15
16.7.	Additional information

* **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
ATE	Acute Toxicity Estimate
AVV	Waste Shipment Ordinance (DE)
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EAK	European Waste Catalogue
EC_{50}	Effective Concentration 50%
EG	European Community
EN	European Standard
ES	Exposure scenario
EU	European Union
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization

KG	body weight
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	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
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
Tox.	Toxicity
TRGS	Technische Regeln für Gefahrstoffe
UFI	Unique Formula Identifier
UN	United Nations
VOC	Volatile organic compounds
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 *(Met. Corr. 1)*	H290: May be corrosive to metals.	
Skin corrosion/irritation *(Skin Corr. 1)*	H314: Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation *(Eye Dam. 1)*	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**
To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.