

SAFETY DATA SHEET

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

Revision date: 31 Jan 2025

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Version: 5



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Biotex 25I

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

1.1. Product identifier

Trade name/designation:

Biotex 25I

Article No.:

X103025

UFI:

G7PN-VME5-4YKA-Y6TE

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:

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. 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.	

Additional information:

The wording of the listed hazard statements can be found in section 16.

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 substance in the mixture does 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 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 weight-%
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	1 - < 5 weight-%
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 weight-%
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 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 1310-73-2 EC No.: 215-185-5 Index No.: 011-002-00-6 REACH No.: 01-2119457892-27	sodium hydroxide Met. Corr. 1 (H290), Skin Corr. 1A (H314) Danger Specific concentration limit (SCL) Skin Corr. 1A; H314: $C \geq 5\%$ Skin Corr. 1B; H314: $2\% \leq C < 5\%$ Skin Irrit. 2; H315: $0.5\% \leq C < 2\%$ Eye Dam. 1; H318: $C \geq 2\%$ Eye Irrit. 2; H319: $0.5\% \leq C < 2\%$ Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg	< 1 weight-%

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.

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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

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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/m ³) 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/m ³)
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/m ³) 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/m ³) ② 15 ppm (101.2 mg/m ³)
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/m ³)
MAK (AT)	sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	② 4 mg/m ³ ⑤ (einatembare Fraktion max. 8x5 min./Schicht, Momentanwert)
MAK (AT)	sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	① 2 mg/m ³ 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/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	89 mg/m ³	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/m ³	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/m ³	① DNEL worker ② Long-term - inhalation, local effects

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Substance name	DNEL value	① DNEL type ② Exposure route
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	40.5 mg/m ³	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/m ³	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/m ³	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
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts CAS No.: 68411-30-3 EC No.: 270-115-0	12 mg/m ³	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/m ³	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/m ³	① DNEL worker ② Long-term - dermal, systemic effects
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	1 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	1 mg/m ³	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

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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, 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
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 Breakthrough time: >10 min

Glove 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).

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

Odour: Perfumes, fragrances

Colour: orange

flammability: No data available

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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/cm ³	20 °C	
Bulk density	not applicable		
Water solubility	completely miscible	20 °C	
Dynamic viscosity	< 10 mPa·s	25 °C	
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

LD₅₀ oral: 500 mg/kg (Rat)

LD₅₀ dermal: >2,000 mg/kg (Rat)

LC₅₀ Acute inhalation toxicity (dust/mist): >5 mg/L (Rat)

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

LD₅₀ oral: >2,000 mg/kg (Rat)

LD₅₀ dermal: >2,000 mg/kg (Rat)

LC₅₀ Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat)

LC₅₀ Acute inhalation toxicity (vapour): >20 mg/L 6 h (Rat)

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

LD₅₀ oral: >2,000 mg/kg (Rat)

LD₅₀ dermal: >2,000 mg/kg (Rat)

LC₅₀ 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

LD₅₀ oral: 500 mg/kg (Rat)

LD₅₀ dermal: >2,000 mg/kg (Rat)

LC₅₀ Acute inhalation toxicity (dust/mist): >5 mg/L (Rat)

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

LD₅₀ oral: >2,000 mg/kg (Rat)

LD₅₀ 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.

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

LC₅₀: >1 mg/L 4 d (fish)

EC₅₀: >1 mg/L 2 d (crustaceans)

ErC₅₀: >1 mg/L (Algae/water plant)

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

LC₅₀: >1,000 mg/L 4 d (fish)

EC₅₀: >1,000 mg/L 2 d (crustaceans)

LC₅₀: 9,640 mg/L 4 d (fish, Pimephales promelas)

LC₅₀: 9,714 mg/L 1 d (Daphnia magna)

EC₅₀: >100 mg/L (Algae/water plant, Bacteria)

LOEC: 1,000 mg/L (Alge)

EC₅₀: >100 mg/L 2 d (crustaceans, Daphnia magna)

ErC₅₀: >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)

LOEC: 1,000 mg/L (Algae/water plant, Algae)

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

LC₅₀: 2,780 mg/L 4 d (fish, Pimephales promelas)

EC₅₀: 4,950 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))

ErC₅₀: >100 mg/L (Algae/water plant, Scenedesmus subspicatus)

EC₅₀: >100 mg/L 2 d (Daphnia magna) OECD 202

ErC₅₀: >100 mg/L (Algae/water plant, Scenedesmus sp.) OECD 201

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

LC₅₀: >1 mg/L 4 d (fish)

EC₅₀: >1 mg/L 2 d (crustaceans)

ErC₅₀: >1 mg/L (Algae/water plant)

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

LC₅₀: 125 mg/L 4 d (fish, Gambusia affinis (Mosquito fish))

EC₅₀: 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: —

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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 any substance that exhibits endocrine disrupting properties towards non-target organisms, as no ingredient fulfills the criteria.

12.7. Other adverse effects

No data 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)
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	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	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

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
Tunnel restriction code: (E)			IATA-Verpackungsanweisung - Cargo: 856 IATA Maximum Quantity - Cargo: 60L

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

15.1.1. EU legislation

Restrictions on use:

Entry 3, Entry 40, Entry 55, Entry 75

Additional information: 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: 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

8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
12.1.	Toxicity
16.1.	Indication of changes
16.2.	Abbreviations and acronyms

* 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
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
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

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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
TRGS	Technische Regeln für Gefahrstoffe
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 (<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

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.