

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Jan 2021

Print date: 19 Oct 2021

Version: 4,2

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LU 100 Spray Cleaner

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

1.1. Product identifier

Trade name/designation:

LU 100 Spray Cleaner

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

Use of the substance/mixture:

Mix of emulsifiers

Water-miscible cleaner containing alkali metal phosphate, alkali metal hydroxides, fatty alcohol sulfates, sulfonates, solubilizers.

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

FL-Industrievertretung

Techn. Handel-Industriebedarf

Hafenstr. 44G

D-38112 Braunschweig

Germany

Telephone: +49 531/316800

Telefax: +49 531/316802

E-mail: info@fl-lust.de

Website: www.fl-industrievertretung.de

E-mail (competent person): info@fl-lust.de

1.4. Emergency telephone number

FL-Industrievertretung, 24h: +49 171 4135841, +49 531/316800 (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
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

hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

Supplemental hazard information: -

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Special rules for supplemental label elements for certain mixtures:

5,8 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

15,9 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Mixture of substances listed below with nonhazardous additions:

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 112-34-5 EC No.: 203-961-6 REACH No.: 01-2119475104-44-0000	2-(2-butoxyethoxy)ethanol Eye Irrit. 2 (H319) Warning	6 - ≤ 10.08 weight-%
CAS No.: 97489-15-1 EC No.: 307-055-2 REACH No.: 01-2119489924-20-XXXX	Sulfonic acids, C14-17-sec-alkane, sodium salts Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318), Skin Irrit. 2 (H315) Danger	1 - ≤ 2.3 weight-%
CAS No.: 126-92-1 EC No.: 204-812-8 REACH No.: 01-2119971586-23-0002	sodium etasulfate Eye Dam. 1 (H318), Skin Irrit. 2 (H315) Danger	1 - ≤ 2 weight-%
CAS No.: 1310-73-2 EC No.: 215-185-5 REACH No.: 01-2119457892-27-XXXX	sodium hydroxide 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%	1 - ≤ 2 weight-%
CAS No.: 68439-50-9 EC No.: 500-213-3	Alcohols, C12-14, ethoxylated Aquatic Acute 1 (H400), Aquatic Chronic 3 (H412), Eye Irrit. 2 (H319) Warning M-factor (acute): 1	0 - ≤ 0.12 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. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician. After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Get immediate medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.

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After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

Following ingestion:

Do NOT induce vomiting. Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Get immediate medical advice/attention.

Self-protection of the first aider:

Use personal protection equipment.

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

No data available Skin corrosion/irritation Serious eye damage/eye irritation

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

No data available

5.2. Special hazards arising from the substance or mixture

Carbon monoxide , Sulphur dioxide (SO₂) ,Sulphur oxides

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear a self-contained breathing apparatus and chemical protective clothing.

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:

Use personal protection equipment. Remove persons to safety.

Protective equipment:

Use appropriate respiratory protection. Wear protective gloves/protective clothing/eye protection/face protection.

Emergency procedures:

Provide adequate ventilation.

6.1.2. For emergency responders

Personal protection equipment:

Use appropriate respiratory protection. Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Clear spills immediately. Use appropriate container to avoid environmental contamination.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Handle and open container with care. Store in a cool dry place. Avoid contact with eyes and skin. Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Usual measures for fire prevention.

Environmental precautions:

Shafts and sewers must be protected from entry of the product. Provide for retaining containers, e.g. floor pan without outflow.

Advices on general occupational hygiene

Wash hands before breaks and after work. Use protective skin cream before handling the product. Immediately remove any contaminated clothing, shoes or stockings. When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed and dry. Keep container tightly closed in a cool, well-ventilated place.

Storage class (TRGS 510, Germany): 12 – non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

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
TRGS 900 (DE)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	① 10 ppm (67 mg/m ³) ② 15 ppm (100.5 mg/m ³) ⑤ (Aerosol und Dampf)
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)
TRGS 900 (DE)	Hydrocarbons, TRGS 900	① 0 mg/m ³ ⑤ Mass fraction (wt %): 0

8.1.2. Biological limit values

No data available

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8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route ③ Exposure time
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, 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
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	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	5 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects
pentapotassium triphosphate CAS No.: 13845-36-8 EC No.: 237-574-9	5.88 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
pentapotassium triphosphate CAS No.: 13845-36-8 EC No.: 237-574-9	1.45 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	35 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	12.4 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	5 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	3.57 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	2.8 mg/cm ²	① DNEL worker ② Long-term - dermal, local effects
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	2.8 mg/cm ²	① DNEL worker ② Long-term - dermal, local effects
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	2.8 mg/cm ²	① DNEL Consumer ② Long-term - dermal, local effects
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	2.8 mg/cm ²	① DNEL Consumer ② Acute - dermal, local effects
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	7.1 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
sodium etasulfate CAS No.: 126-92-1 EC No.: 204-812-8	85 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects

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sodium etasulfate CAS No.: 126-92-1 EC No.: 204-812-8	2,440 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
sodium etasulfate CAS No.: 126-92-1 EC No.: 204-812-8	24 mg/kg	① DNEL worker ② Long-term - oral, 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
potassium hydroxide CAS No.: 1310-58-3 EC No.: 215-181-3	1 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
potassium hydroxide CAS No.: 1310-58-3 EC No.: 215-181-3	1 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS No.: 68891-38-3 EC No.: 500-234-8	175 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS No.: 68891-38-3 EC No.: 500-234-8	52 mg/kg	① DNEL Consumer ② Long-term - inhalation, systemic effects
Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS No.: 68891-38-3 EC No.: 500-234-8	2,750 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects ③ 24 h
Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS No.: 68891-38-3 EC No.: 500-234-8	1,650 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects ③ 24 h
Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS No.: 68891-38-3 EC No.: 500-234-8	15 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Castor oil, sulfated, sodium salt CAS No.: 68187-76-8 EC No.: 269-123-7	25 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Castor oil, sulfated, sodium salt CAS No.: 68187-76-8 EC No.: 269-123-7	12.5 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Castor oil, sulfated, sodium salt CAS No.: 68187-76-8 EC No.: 269-123-7	12.5 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Potassium p-cumensulphonate CAS No.: 164524-02-1 EC No.: 629-764-9	26.9 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Potassium p-cumensulphonate CAS No.: 164524-02-1 EC No.: 629-764-9	6.6 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Potassium p-cumensulphonate CAS No.: 164524-02-1 EC No.: 629-764-9	136.25 mg/ kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Potassium p-cumensulphonate CAS No.: 164524-02-1 EC No.: 629-764-9	68.1 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route ③ Exposure time
Potassium p-cumensulphonate CAS No.: 164524-02-1 EC No.: 629-764-9	0.00096 mg/ m ³	① DNEL worker ② Long-term - dermal, local effects
Potassium p-cumensulphonate CAS No.: 164524-02-1 EC No.: 629-764-9	0.00048 mg/ m ³	① DNEL Consumer ② Long-term - dermal, local effects
Potassium p-cumensulphonate CAS No.: 164524-02-1 EC No.: 629-764-9	3.8 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	26.9 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	68.1 mg/kg bw/day	① DNEL Consumer ② Long-term - inhalation, systemic effects
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	6.6 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	0.096 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	0.00048 mg/ m ³	① DNEL Consumer ② Long-term - inhalation, local effects
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	136.25 mg/ kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	3.8 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
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
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	0.04 mg/l	① PNEC aquatic, freshwater
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	0.004 mg/l	① PNEC aquatic, marine water
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	600 mg/l	① PNEC sewage treatment plant
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	9.4 mg/kg	① PNEC sediment, freshwater
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	0.94 mg/kg	① PNEC sediment, marine water

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Substance name	PNEC Value	① PNEC type
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	9.4 mg/kg	① PNEC soil
sodium etasulfate CAS No.: 126-92-1 EC No.: 204-812-8	0.1357 mg/l	① PNEC aquatic, freshwater
sodium etasulfate CAS No.: 126-92-1 EC No.: 204-812-8	0.01357 mg/l	① PNEC aquatic, marine water
sodium etasulfate CAS No.: 126-92-1 EC No.: 204-812-8	1.35 mg/l	① PNEC sewage treatment plant
sodium etasulfate CAS No.: 126-92-1 EC No.: 204-812-8	1.5 mg/kg	① PNEC soil, freshwater
sodium etasulfate CAS No.: 126-92-1 EC No.: 204-812-8	0.15 mg/kg	① PNEC soil, marine water
Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS No.: 68891-38-3 EC No.: 500-234-8	0.24 mg/l	① PNEC aquatic, freshwater
Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS No.: 68891-38-3 EC No.: 500-234-8	0.024 mg/l	① PNEC aquatic, marine water
Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS No.: 68891-38-3 EC No.: 500-234-8	10,000 mg/l	① PNEC sewage treatment plant
Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS No.: 68891-38-3 EC No.: 500-234-8	0.917 mg/kg	① PNEC sediment, freshwater
Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS No.: 68891-38-3 EC No.: 500-234-8	0.092 mg/kg	① PNEC sediment, marine water
Alcohols, C12-14, ethoxylated, sulfates, sodium salts CAS No.: 68891-38-3 EC No.: 500-234-8	7.5 mg/kg	① PNEC soil
Castor oil, sulfated, sodium salt CAS No.: 68187-76-8 EC No.: 269-123-7	0.012 mg/l	① PNEC aquatic, freshwater
Castor oil, sulfated, sodium salt CAS No.: 68187-76-8 EC No.: 269-123-7	0.001 mg/l	① PNEC aquatic, marine water
Castor oil, sulfated, sodium salt CAS No.: 68187-76-8 EC No.: 269-123-7	1 mg/l	① PNEC sewage treatment plant
Potassium p-cumensulphonate CAS No.: 164524-02-1 EC No.: 629-764-9	0.23 mg/l	① PNEC aquatic, freshwater
Potassium p-cumensulphonate CAS No.: 164524-02-1 EC No.: 629-764-9	0.023 mg/l	① PNEC aquatic, marine water
Potassium p-cumensulphonate CAS No.: 164524-02-1 EC No.: 629-764-9	100 mg/l	① PNEC sewage treatment plant

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Substance name	PNEC Value	① PNEC type
Potassium p-cumensulphonate CAS No.: 164524-02-1 EC No.: 629-764-9	0.862 mg/kg	① PNEC sediment, freshwater
Potassium p-cumensulphonate CAS No.: 164524-02-1 EC No.: 629-764-9	0.086 mg/kg	① PNEC sediment, marine water
Potassium p-cumensulphonate CAS No.: 164524-02-1 EC No.: 629-764-9	0.037 mg/kg	① PNEC soil, freshwater
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	0.23 mg/l	① PNEC aquatic, freshwater
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	0.023 mg/l	① PNEC aquatic, marine water
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	100 mg/l	① PNEC sewage treatment plant
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	0.862 mg/kg	① PNEC sediment, freshwater
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	0.086 mg/kg	① PNEC sediment, marine water
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	0.037 mg/kg	① PNEC soil, freshwater

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Suitable gloves type NBR (Nitrile rubber)

Thickness of the glove material > 0,1 mm.

Penetration time (maximum wearing period): Index-No. 2 Duration of wearing with occasional contact (splashes):

> 30 minutes

Index-No. 6 Duration of wearing with permanent contact

> 480 minutes Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well.

Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

Usually no personal respirative protection necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Other protection measures:

Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. Do not breathe gas/vapour/aerosol. Avoid contact with eyes and skin. Wash hands before breaks and after work. Use protective skin cream before handling the product. Wear protective gloves/protective clothing.

8.2.3. Environmental exposure controls

No data available

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: not determined

Odour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
pH	10.5	20 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	<i>not determined</i>			
Relative density	<i>not determined</i>			
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

Gases/vapours, irritant Phosphorus oxides (e.g. P₂O₅), Metal oxide smoke, toxic ,Hydrogen ,Peroxides.

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SECTION 11: Toxicological information

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

Substance name	Toxicological information
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	LD₅₀ oral: 2,410 mg/kg (Mouse) LD₅₀ dermal: 2,764 mg/kg (Rabbit)
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	LD₅₀ oral: >500 - =2,000 mg/kg (Rat) OECD 401
sodium etasulfate CAS No.: 126-92-1 EC No.: 204-812-8	LD₅₀ oral: >2,000 mg/kg (Rat)
Alcohols, C12-14, ethoxylated CAS No.: 68439-50-9 EC No.: 500-213-3	LD₅₀ oral: >2,000 mg/kg (Ratte) LD₅₀ dermal: >2,000 mg/kg (Rabbit)

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

irritant. Causes severe skin burns and eye damage.

Serious eye damage/irritation:

Risk of serious damage to eyes. Causes serious eye damage.

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

No experimental indications of in vitro mutagenicity exist. Based on available data, the classification criteria are not met.

Carcinogenicity:

No indication of human carcinogenicity. Based on available data, the classification criteria are not met.

Reproductive toxicity:

No indications of human reproductive toxicity exist. Based on available data, the classification criteria are not met.

STOT-single exposure:

There are no data available on the preparation/mixture itself. Based on available data, the classification criteria are not met.

STOT-repeated exposure:

There are no data available on the preparation/mixture itself. Based on available data, the classification criteria are not met.

Aspiration hazard:

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

Additional information:

The product has not been tested. No data available

11.2. Information on other hazards

No data available

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SECTION 12: Ecological information

12.1. Toxicity

Substance name	Toxicological information
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	LC₅₀ : 5,660 mg/l 4 d (Algen) EC₅₀ : 100 mg/l 2 d (Daphnien) LC₅₀ : 1,300 mg/l 4 d (Fische)
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	EC₅₀ : =9.2 mg/l 2 d (crustaceans) LC₅₀ : =5.5 mg/l 4 d (fish, Fisch) NOEC : =0.85 mg/l 28 d (fish, Oncorhynchus mykiss (Rainbow trout)) NOEC : =3.2 mg/l 21 d (crustaceans, Daphnia magna (Big water flea)) ErC₅₀ : >61 mg/l 3 d (Algae/water plant)
sodium etasulfate CAS No.: 126-92-1 EC No.: 204-812-8	EC₅₀ : 483 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) IC₅₀ : >511 mg/l 3 d (Algae/water plant) LC₅₀ : >100 mg/l 4 d (fish)
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	LC₅₀ : 46 mg/l 4 d (Fish) EC₅₀ : 76 mg/l 1 d (Daphnia magna (Big water flea))
Alcohols, C12-14, ethoxylated CAS No.: 68439-50-9 EC No.: 500-213-3	LC₅₀ : >0.1 - 1 mg/l 4 d (Brachydanio rerio) EC₅₀ : >0.1 - 1 mg/l 2 d (Aquatische Intervertebraten) NOEC : >0.1 - 1 mg/l -∞ h (Algae/water plant, Daphnia magna (Big water flea)) EC₅₀ : >0.1 - 1 mg/l 3 d

12.2. Persistence and degradability

Substance name	Biodegradation	Remark
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	Yes, rapidly	Bioaccumulative potential: No indication of bioaccumulation potential.
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	Yes, rapidly	Bioaccumulative potential: No indication of bioaccumulation potential.
sodium etasulfate CAS No.: 126-92-1 EC No.: 204-812-8	Yes, rapidly	Bioaccumulative potential: No indication of bioaccumulation potential.
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	Yes, rapidly	Bioaccumulative potential: No indication of bioaccumulation potential.
Alcohols, C12-14, ethoxylated CAS No.: 68439-50-9 EC No.: 500-213-3	Yes, rapidly	

Biodegradation:

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Substance name	Log K _{OW}	Bioconcentration factor (BCF)
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	1	
Sulfonic acids, C14-17-sec-alkane, sodium salts	= 0.2	

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Substance name	Log K _{ow}	Bioconcentration factor (BCF)
CAS No.: 97489-15-1 EC No.: 307-055-2		

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5 EC No.: 203-961-6	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Sulfonic acids, C14-17-sec-alkane, sodium salts CAS No.: 97489-15-1 EC No.: 307-055-2	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
sodium etasulfate CAS No.: 126-92-1 EC No.: 204-812-8	—
sodium hydroxide CAS No.: 1310-73-2 EC No.: 215-185-5	—
Alcohols, C12-14, ethoxylated CAS No.: 68439-50-9 EC No.: 500-213-3	—

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

The substance has no ozone depleting potential.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Consult the appropriate authorities about waste disposal.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code packaging:

Remark:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/ RID)	Inland waterway craft (ADN)
14.1. UN number or ID number	
UN 3267	UN 3267

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Land transport (ADR/ RID)	Inland waterway craft (ADN)	
14.2. UN proper shipping name		
CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (sodium hydroxide, potassium hydroxide)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (sodium hydroxide, potassium hydroxide)	
14.3. Transport hazard class(es)		
 8	 8	
14.4. Packing group		
II	II	
14.5. Environmental hazards		
No	No	
14.6. Special precautions for user		
Special provisions: 274 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 Hazard identificati on number (Kemler No.): 80 Classification code: C7 tunnel restriction code: (E)	Special provisions: 274 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 Classification code: C7	

14.7. Maritime transport in bulk according to IMO instruments

No data available

Additional information:

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

[DE] National regulations

Störfallverordnung

Remark:

Not subject to StörfallVO.

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Technische Anleitung Luft (TA-Luft)

Remark:

Not subject to TA-Luft.

Water hazard class

WGK:

2 - deutlich wassergefährdend

Description:

hazardous to water (WGK 2)

Source:

Classification according to VwVwS, Annex 2.

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

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]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
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. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
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.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.