

SAFETY DATA SHEET

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

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Bio Clean Gel NSF 1I

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

1.1. Product identifier

Trade name/designation:

Bio Clean Gel NSF 1I

Article No.:

T165101

UFI:

TXN4-N5X6-4000-XS1V

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

Use of the substance/mixture:

Detergents and cleaning agents

Relevant identified uses:

Product Categories [PC]

PC 35: Washing and cleaning products

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

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstälzell

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
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
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:

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts; disodium metasilicate; potassium hydroxide

Hazard statements for health hazards	
H315	Causes skin irritation.
H318	Causes serious eye damage.

Precautionary statements Response	
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
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.
P332 + P313	If skin irritation occurs: Get medical advice/attention.

2.3. Other hazards

No data available

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.: 111-76-2 EC No.: 203-905-0 Index No.: 603-014-00-0 REACH No.: 01-2119475108-36-XXXX	2-butoxyethanol Acute Tox. 3 (H331), Acute Tox. 4 (H302), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315) Danger Acute Toxicity Estimate ATE (oral) 1,200 mg/kg ATE (dermal) 2,000 mg/kg ATE (inhalation, vapour) 3 mg/L	≥ 5 - < 10 Vol-%
CAS No.: 164462-16-2 REACH No.: 01-0000016977-53	Alanine, N,N-bis(carboxymethyl)-, trisodium salt Met. Corr. 1 (H290) Warning Acute Toxicity Estimate ATE (oral) > 4,000 mg/kg ATE (dermal) > 4,000 mg/kg ATE (inhalation, dust/mist) > 5 mg/L	≥ 1 - < 5 Vol-%
CAS No.: 164524-02-1 EC No.: 629-764-9 REACH No.: 01-2119489427-24	Benzolsulfonsäure, 4-(1-Methylethyl)-, Kaliumsalz Eye Irrit. 2 (H319) Warning Acute Toxicity Estimate ATE (oral) > 7,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) > 6.41 mg/L	≥ 1 - < 5 Vol-%
CAS No.: 15763-76-5 EC No.: 239-854-6 REACH No.: 01-2119489411-37-XXXX	sodium p-cumenesulphonate Eye Irrit. 2 (H319) Warning Acute Toxicity Estimate ATE (oral) > 7,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 20 mg/L ATE (inhalation, dust/mist) > 5 mg/L	≥ 1 - < 5 Vol-%
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 - < 3 Vol-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 6834-92-0 EC No.: 229-912-9 Index No.: 014-010-00-8 REACH No.: 01-2119449811-37	disodium metasilicate Eye Dam. 1 (H318), STOT SE 3 (H335), Skin Corr. 1B (H314) Danger Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) > 5 mg/L	≥ 1 - < 3 Vol-%
CAS No.: 1310-58-3 EC No.: 215-181-3 Index No.: 019-002-00-8 REACH No.: 01-2119487136-33-XXXX	potassium hydroxide Acute Tox. 4 (H302), 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) 333 mg/kg	≥ 1 - < 2 Vol-%

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation:

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. Rub greasy ointment into the skin.

After eye contact:

Protect uninjured eye. 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.

Following ingestion:

Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

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

Causes serious eye damage. Causes skin irritation.

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

none

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water, Foam, Extinguishing powder, Carbon dioxide (CO₂), Sand, Nitrogen, Extinguishing blanket

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Carbon monoxide, Carbon dioxide (CO₂), Sulphur oxides

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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5.4. Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Special danger of slipping by leaking/spilling product.

6.1.2. For emergency responders

No data available

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 cleaning up:

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water.

Other information:

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

6.4. Reference to other sections

See section 7 for further information on safe handling.

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:

Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep/Store only in original container.

Further information on storage conditions:

Protect from frost.

7.3. Specific end use(s)

Recommendation:

No further relevant information available.

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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)	2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	② 40 ppm (200 mg/m ³) ⑤ (max. 4x30 min./Schicht, kann über die Haut aufgenommen werden) H
IOELV (EU)	2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	① 20 ppm (98 mg/m ³) ② 50 ppm (246 mg/m ³) ⑤ (may be absorbed through the skin)
MAK (AT)	2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	① 20 ppm (98 mg/m ³) ⑤ (kann über die Haut aufgenommen werden) H
MAK (AT)	potassium hydroxide CAS No.: 1310-58-3 EC No.: 215-181-3	① 2 mg/m ³ ⑤ (eintatembare 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
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	98 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	59 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	1,091 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	426 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	147 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	10.3 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	26.7 mg/kg bw/day	① DNEL Consumer ② Acute - dermal, systemic effects
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	6.3 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects
Benzolsulfonsäure, 4-(1-Methylethyl)-, Kaliumsalz CAS No.: 164524-02-1 EC No.: 629-764-9	53.6 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Benzolsulfonsäure, 4-(1-Methylethyl)-, Kaliumsalz CAS No.: 164524-02-1 EC No.: 629-764-9	7.6 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	53.6 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	13.2 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	7.6 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 - 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
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
potassium hydroxide CAS No.: 1310-58-3 EC No.: 215-181-3	1 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic 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

Substance name	PNEC Value	① PNEC type
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	8.8 mg/L	① PNEC aquatic, marine water
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	463 mg/L	① PNEC sewage treatment plant
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	0.88 mg/L	① PNEC sediment, freshwater
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	3.46 mg/L	① PNEC sediment, marine water
2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0	8.14 mg/kg	① PNEC soil
Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS No.: 164462-16-2	2 mg/L	① PNEC aquatic, freshwater

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Substance name	PNEC Value	① PNEC type
Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS No.: 164462-16-2	0.2 mg/L	① PNEC aquatic, marine water
Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS No.: 164462-16-2	100 mg/L	① PNEC sewage treatment plant
Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS No.: 164462-16-2	24 mg/kg	① PNEC sediment, freshwater
Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS No.: 164462-16-2	2.5 mg/kg	① PNEC soil, freshwater
sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6	100 mg/L	① PNEC sewage treatment plant

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment



Eye/face protection:

Suitable eye protection: EN 166

Skin protection:

Hand protection:

Suitable gloves type: EN 374

Suitable material: NBR (Nitrile rubber)

Breakthrough time: 480 min.

Thickness of the glove material: 0,4 mm

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.

Respiratory protection:

Combination filtering device, Type: A

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Other protection measures:

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Take off contaminated clothing and wash it before reuse. Wash hands thoroughly after handling.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

No tests were carried out. The selection was made for the preparations to the best of our knowledge and via the information provided by the ingredients. For preparations, the resistance of glove protection materials cannot be calculated in advance and must therefore be tested before use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: colourless

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Odour: characteristic

flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	13.5		
Melting point	No data available		
Freezing point	0 °C		
Initial boiling point and boiling range	97 °C		
Flash point	No data available		
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	1.03 g/cm ³	20 °C	
Bulk density	not applicable		
Water solubility	No data available		
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Aluminium, zinc

10.6. Hazardous decomposition products

No known hazardous decomposition products.

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

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

Toxicological information

Acute Toxicity Estimate for Mixtures

ATE (oral): >2,000 mg/kg

ATE (dermal): >2,000 mg/kg

ATE (inhalation, dust/mist): >20 mg/L

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2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0

ATE (oral)¹: 1,200 mg/kg

ATE (inhalation, vapour)¹: 3 mg/L

LD₅₀ oral: 300 mg/kg (Kaninchen)

LD₅₀ dermal: 2,000 mg/kg (Rabbit)

LC₅₀ Acute inhalation toxicity (vapour): 2.2 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)

Alanine, N,N-bis(carboxymethyl)-, trisodium salt CAS No.: 164462-16-2

LD₅₀ oral: >4,000 mg/kg (Ratte)

LD₅₀ dermal: >4,000 mg/kg (Ratte) OECD 402

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

Benzolsulfonsäure, 4-(1-Methylethyl)-, Kaliumsalz CAS No.: 164524-02-1 EC No.: 629-764-9

LD₅₀ oral: >7,000 mg/kg (Ratte) OECD 401

LD₅₀ dermal: >2,000 mg/kg (Kaninchen) OECD 402

LC₅₀ Acute inhalation toxicity (dust/mist): >6.41 mg/L 10 h (Ratte) OECD 403

sodium p-cumenesulphonate CAS No.: 15763-76-5 EC No.: 239-854-6

LD₅₀ oral: >7,000 mg/kg (Rat) OECD 401

LD₅₀ dermal: >2,000 mg/kg (Kaninchen)

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

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

disodium metasilicate CAS No.: 6834-92-0 EC No.: 229-912-9

LD₅₀ oral: >2,000 mg/kg (Rat)

LD₅₀ dermal: >2,000 mg/kg (Rat)

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

potassium hydroxide CAS No.: 1310-58-3 EC No.: 215-181-3

LD₅₀ oral: 333 mg/kg (Rat)

¹: Acute Toxicity Estimate. Harmonised (legal) classification.

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

No further relevant information available.

Germ cell mutagenicity:

No further relevant information available.

Carcinogenicity:

No further relevant information available.

Reproductive toxicity:

No further relevant information available.

STOT-single exposure:

No further relevant information available.

STOT-repeated exposure:

No further relevant information available.

Aspiration hazard:

No further relevant information available.

11.2. Information on other hazards

Other information:

Has degreasing effect on the skin. May be absorbed through the skin. May cause respiratory irritation.

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Not tested preparation. The statement is derived from the properties of the individual components.

SECTION 12: Ecological information

12.1. Toxicity

2-butoxyethanol	CAS No.: 111-76-2	EC No.: 203-905-0
LC₅₀: 1,490 mg/L (fish, <i>Lepomis macrochirus</i>)		
LC₅₀: 1,464 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i>)		
EC₅₀: 911 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>)		
EC₅₀: 1,800 mg/L 2 d (crustaceans, <i>Daphnia magna</i>)		
NOEC: 88 mg/L (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>)		
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)		
Alanine, N,N-bis(carboxymethyl)-, trisodium salt	CAS No.: 164462-16-2	
LC₅₀: >110 mg/L 4 d (fish, <i>Danio rerio</i>)		
NOEC: 100 mg/L 28 d (fish, <i>Oncorhynchus mykiss</i>) OECD 204		
EC₅₀: >100 mg/L 2 d (Algae/water plant, <i>Daphnia magna</i>)		
Benzolsulfonsäure, 4-(1-Methylethyl)-, Kaliumsalz	CAS No.: 164524-02-1	EC No.: 629-764-9
LC₅₀: >100 mg/L 4 d (fish, <i>Cyprinus carpio</i>)		
EC₅₀: >100 mg/L 2 d (Algae/water plant, <i>Daphnia magna</i>)		
sodium p-cumenesulphonate	CAS No.: 15763-76-5	EC No.: 239-854-6
LC₅₀: >100 mg/L 4 d (fish, <i>Cyprinus carpio</i>)		
EC₅₀: >100 mg/L 2 d (crustaceans, <i>Daphnia magna</i>)		
NOEC: 31 mg/L		
LC₅₀: >1,000 mg/L 4 d (fish)		
EC₅₀: 230 mg/L 3 d (Algae/water plant)		
EC₅₀: 1,000 mg/L 2 d (crustaceans, <i>Daphnia magna</i>)		
disodium metasilicate	CAS No.: 6834-92-0	EC No.: 229-912-9
LC₅₀: 210 mg/L 4 d (fish, <i>Danio rerio</i>)		
EC₅₀: 1,700 mg/L 2 d (crustaceans, <i>Daphnia magna</i>)		
LC₅₀: 210 mg/L 4 d (fish, <i>Danio rerio</i> (zebrafish))		
EC₅₀: 1,700 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea))		
potassium hydroxide	CAS No.: 1310-58-3	EC No.: 215-181-3
LC₅₀: 80 mg/L 4 d (fish, <i>Gambusia affinis</i>)		

12.2. Persistence and degradability

2-butoxyethanol	CAS No.: 111-76-2	EC No.: 203-905-0
Biodegradation: Yes, rapidly		
Remark: 1000 - 10000 mg/L		
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	CAS No.: 68411-30-3	EC No.: 270-115-0
Biodegradation: Yes, rapidly		
Alanine, N,N-bis(carboxymethyl)-, trisodium salt	CAS No.: 164462-16-2	
Biodegradation: Yes, rapidly		
Benzolsulfonsäure, 4-(1-Methylethyl)-, Kaliumsalz	CAS No.: 164524-02-1	EC No.: 629-764-9
Biodegradation: Yes, rapidly		
sodium p-cumenesulphonate	CAS No.: 15763-76-5	EC No.: 239-854-6
Biodegradation: Yes, rapidly		

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Additional information:

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

12.3. Bioaccumulative potential

2-butoxyethanol	CAS No.: 111-76-2	EC No.: 203-905-0
Log K_{OW}:	0.81	
sodium p-cumenesulphonate	CAS No.: 15763-76-5	EC No.: 239-854-6
Log K_{OW}:	-1.1	

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

2-butoxyethanol	CAS No.: 111-76-2	EC No.: 203-905-0
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:	—	
Alanine, N,N-bis(carboxymethyl)-, trisodium salt	CAS No.: 164462-16-2	
Results of PBT and vPvB assessment:	—	
Benzolsulfonsäure, 4-(1-Methylethyl)-, Kaliumsalz	CAS No.: 164524-02-1	EC No.: 629-764-9
Results of PBT and vPvB assessment:	—	
sodium p-cumenesulphonate	CAS No.: 15763-76-5	EC No.: 239-854-6
Results of PBT and vPvB assessment:	—	
disodium metasilicate	CAS No.: 6834-92-0	EC No.: 229-912-9
Results of PBT and vPvB assessment:	—	
potassium hydroxide	CAS No.: 1310-58-3	EC No.: 215-181-3
Results of PBT and vPvB assessment:	—	

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

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No data 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
20 01 29 *	Detergents containing hazardous substances

*: Evidence for disposal must be provided.

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			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

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:

Use restriction according to REACH annex XVII, no.: 3, 75

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Other regulations (EU):

Labelling for contents according to regulation (EC) No. 648/2004

< 5% anionic surfactants

< 5% non-ionic surfactants

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

Volatile organic compounds (VOC) content in percent by weight: 5 weight-%

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

* 16.1. Indication of changes

1.3.	Details of the supplier of the safety data sheet
8.1.	Control parameters
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
16.1.	Indication of changes

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level

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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
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PC	Product category
PNEC	Predicted No Effect Concentration
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

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
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
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	
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.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

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

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caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.