

**Trade name:** PreWash B**Product no.:** 303999**Current version :** 2.0.0, issued: 22.04.2021**Replaced version:** 1.0.0, issued: 07.08.2020**Region:** IE**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****PreWash B****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Cleaner

**Uses advised against**

No data available.

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

Koch-Chemie GmbH

Einsteinstr. 42

D-59423 Unna

Telephone no. +49-2303-9 86 70-0

Fax no. +49-2303-9 86 70-26

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

+353 1 809 2166 (National Poisons Information Centre)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Eye Dam. 1; H318

Met. Corr. 1; H290

Skin Corr. 1A; H314

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS05

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

potassium hydroxide

**Hazard statement(s)**

H290

May be corrosive to metals.

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H314 Causes severe skin burns and eye damage.

**Precautionary statement(s)**

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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.

P501 Dispose of contents/container to a facility in accordance with local and national regulations.

**Supplemental label elements**

Regulation (EC) No 648/2004 on detergents (Annex VII):

&lt;5% non-ionic surfactants

&lt;5% anionic surfactants

&lt;5% NTA (nitrilotriacetic acid) and salts thereof

&lt;5% Phosphate

**2.3 Other hazards**

PBT assessment

According to the information provided in the supply chain, the mixture does not contain &gt; 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain &gt; 0.1% of a substance that is considered to be vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	<b>potassium hydroxide</b>			
	1310-58-3 215-181-3 019-002-00-8 01-2119487136-33	Acute Tox. 4; H302 Skin Corr. 1A; H314 Met. Corr. 1; H290 Eye Dam. 1; H318	>= 5,00 - < 10,00	wt%
2	<b>trisodium-nitrilotriacetate</b>			
	5064-31-3 225-768-6 607-620-00-6 01-2119519239-36	Acute Tox. 4*; H302 Carc. 2; H351 Eye Irrit. 2; H319	< 5,00	wt%
3	<b>hexyl D-glucoside</b>			
	54549-24-5 259-217-6 - 01-2119492545-29	Eye Dam. 1; H318	< 5,00	wt%
4	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>			

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	68891-38-3 500-234-8 - 01-2119488639-16	Eye Dam. 1; H318 Skin Irrit. 2; H315 Aquatic Chronic 3; H412	< 5,00	wt%
5	<b>2-butoxyethanol</b>			
	111-76-2 203-905-0 603-014-00-0 01-2119475108-36	Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Eye Irrit. 2; H319 Skin Irrit. 2; H315	< 2,50	wt%
6	<b>2-propylheptane-1-ol, ethoxylated</b>			
	160875-66-1 - - -	Eye Dam. 1; H318 Acute Tox. 4; H302	< 2,50	wt%
7	<b>2,2',2''-nitrilotriethanol</b>			
	102-71-6 203-049-8 - -	-	>= 5,00 - < 10,00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(\*, \*\*, \*\*\*, \*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	Eye Irrit. 2; H319: C >= 0,5% Skin Irrit. 2; H315: C >= 0,5% Skin Corr. 1B; H314: C >= 2% Skin Corr. 1A; H314: C >= 5%	-	-
2	-	Carc. 2; H351: C >= 5%	-	-
4	-	Eye Irrit. 2; H319: C >= 5% Eye Dam. 1; H318: C >= 10%	-	-

**Acute toxicity estimate (ATE) values**

No	oral	dermal	inhalative
1	333 mg/kg bodyweight		
2	1740 mg/kg bodyweight		
5	1746 mg/kg bodyweight		

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician. Seek medical advice immediately.

**After inhalation**

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Do not use mouth-to-mouth or mouth-to-nose resuscitation.

**After skin contact**

In case of contact with skin wash off with water. Wash immediately with plenty of water for several minutes. Seek medical attention.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

**After ingestion**

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out mouth and give plenty of water to drink.

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#### 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

No data available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media**

Carbon dioxide; Water mist; Foam

**Unsuitable extinguishing media**

High power water jet

#### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Sulphur oxides (SxO<sub>y</sub>); Nitrogen oxides (NO<sub>x</sub>); Toxic gases/vapours

#### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

### SECTION 6: Accidental release measures

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

**For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing.

**For emergency responders**

Personal protective equipment (PPE) - see section 8.

#### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

#### 6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

#### 6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

**Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Have emergency shower available. Provide eye wash fountain in work area.

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

**Technical measures and storage conditions**

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

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers

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of same material as the original.

**Incompatible products**

Substances to be avoided, see section 10.

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	2,2',2''-nitrilotriethanol	102-71-6	203-049-8
<b>List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)</b>			
Triethanolamine			
	WEL long-term (8-hr TWA reference period)	5	mg/m <sup>3</sup>
2	potassium hydroxide	1310-58-3	215-181-3
<b>List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)</b>			
Potassium hydroxide			
	WEL short-term (15 min reference period)	2	mg/m <sup>3</sup>
3	2-butoxyethanol	111-76-2	203-905-0
<b>2000/39/EC</b>			
2-Butoxyethanol			
	WEL short-term (15 min reference period)	246	mg/m <sup>3</sup> 50 ppm
	WEL long-term (8-hr TWA reference period)	98	mg/m <sup>3</sup> 20 ppm
	Skin resorption / sensibilisation	Skin	
<b>List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)</b>			
2-Butoxyethanol			
	WEL short-term (15 min reference period)	246	mg/m <sup>3</sup> 50 ppm
	WEL long-term (8-hr TWA reference period)	98	mg/m <sup>3</sup> 20 ppm
	Comments	Sk, IOELV	

**DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	potassium hydroxide			1310-58-3 215-181-3
	inhalative	Long term (chronic)	local	1 mg/m <sup>3</sup>
2	trisodium-nitrilotriacetate			5064-31-3 225-768-6
	inhalative	Short term (acute)	systemic	2,4 mg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	0,8 mg/cm <sup>2</sup>
3	hexyl D-glucoside			54549-24-5 259-217-6
	dermal	Long term (chronic)	systemic	595000 mg/kg/day
	inhalative	Long term (chronic)	systemic	420 mg/m <sup>3</sup>
4	Alcohols, C12-14, ethoxylated, sulfates, sodium salts			68891-38-3 500-234-8
	dermal	Long term (chronic)	systemic	2750 mg/kg/day
	dermal	Long term (chronic)	local	132 µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	175 mg/m <sup>3</sup>
5	2-butoxyethanol			111-76-2 203-905-0
	dermal	Long term (chronic)	systemic	125,00 mg/kg/day

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dermal	Short term (acut)	systemic	89,00	mg/kg/day
inhalative	Long term (chronic)	systemic	98,00	mg/m <sup>3</sup>
inhalative	Short term (acut)	systemic	1091,00	mg/m <sup>3</sup>
inhalative	Long term (chronic)	local	246,00	mg/m <sup>3</sup>

## DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	<b>potassium hydroxide</b>			<b>1310-58-3</b> <b>215-181-3</b>
	inhalative	Long term (chronic)	local	1 mg/m <sup>3</sup>
2	<b>trisodium-nitritotriacetate</b>			<b>5064-31-3</b> <b>225-768-6</b>
	oral	Short term (acut)	systemic	0,9 mg/kg
	oral	Long term (chronic)	systemic	0,3 mg/kg
	dermal	Short term (acut)	systemic	
	inhalative	Short term (acut)	systemic	9,6 mg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	3,2 mg/cm <sup>2</sup>
3	<b>hexyl D-glucoside</b>			<b>54549-24-5</b> <b>259-217-6</b>
	oral	Long term (chronic)	systemic	35,7 mg/kg/day
	dermal	Long term (chronic)	systemic	357000 mg/kg/day
	inhalative	Long term (chronic)	systemic	124 mg/m <sup>3</sup>
4	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>			<b>68891-38-3</b> <b>500-234-8</b>
	oral	Long term (chronic)	systemic	15 mg/kg/day
	dermal	Long term (chronic)	systemic	1650 mg/kg/day
	dermal	Long term (chronic)	local	79 µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	52 mg/m <sup>3</sup>
5	<b>2-butoxyethanol</b>			<b>111-76-2</b> <b>203-905-0</b>
	oral	Long term (chronic)	systemic	6,30 mg/kg/day
	oral	Short term (acut)	systemic	26,70 mg/kg/day
	dermal	Long term (chronic)	systemic	75,00 mg/kg/day
	dermal	Short term (acut)	systemic	89,00 mg/kg/day
	inhalative	Long term (chronic)	systemic	59,00 mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	426,00 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	147,00 mg/m <sup>3</sup>

## PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	<b>trisodium-nitritotriacetate</b>		<b>5064-31-3</b> <b>225-768-6</b>
	water	fresh water	0,93 mg/L
	water	marine water	0,093 mg/L
	sewage treatment plant	-	270 mg/L
2	<b>hexyl D-glucoside</b>		<b>54549-24-5</b> <b>259-217-6</b>
	water	fresh water	0,176 mg/L
	water	marine water	0,018 mg/L
	water	Aqua intermittent	4,2 mg/L
	water	fresh water sediment	0,722 mg/kg dry weight
	water	marine water sediment	0,072 mg/kg dry weight
	soil	-	0,654 mg/kg dry weight

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	sewage treatment plant	-	100	mg/L
	secondary poisoning	-	111,11	mg/kg
	with reference to: food			
3	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>		<b>68891-38-3 500-234-8</b>	
	water	fresh water	0,24	mg/L
	water	marine water	0,024	mg/L
	water	Aqua intermittent	0,071	mg/L
	water	fresh water sediment	0,917	mg/kg dry weight
	water	marine water sediment	0,092	mg/kg dry weight
	soil	-	7,5	mg/kg dry weight
	sewage treatment plant	-	10	g/L
4	<b>2-butoxyethanol</b>		<b>111-76-2 203-905-0</b>	
	water	fresh water	8,80	mg/L
	water	marine water	0,88	mg/L
	water	fresh water sediment	34,60	mg/kg
	with reference to: dry weight			
	water	marine water sediment	3,46	mg/kg
	water	Aqua intermittent	26,4	mg/L
	soil	-	2,33	mg/kg dry weight
	sewage treatment plant	-	463,00	mg/L
	secondary poisoning	-	0,02	g/kg

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Tightly fitting safety glasses (EN 166).

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

#### Other

Chemical-resistant work clothes.

#### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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<b>State of aggregation</b>			
liquid			
<b>Form/Colour</b>			
liquid			
green			
<b>Odour</b>			
characteristic			
<b>pH value</b>			
Value	14		
<b>Boiling point / boiling range</b>			
No data available			
<b>Melting point/freezing point</b>			
No data available			
<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
No data available			
<b>Ignition temperature</b>			
No data available			
<b>Oxidising properties</b>			
The product does not have oxidizing properties.			
<b>Explosive properties</b>			
The product does not have explosive properties.			
<b>Flammability</b>			
No data available			
<b>Lower explosion limit</b>			
No data available			
<b>Upper explosion limit</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	1,12 g/cm <sup>3</sup>		
<b>Solubility in water</b>			
Comments	miscible		
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
log Pow		0,81	
Reference temperature		25	°C



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<b>Viscosity</b>
No data available

<b>Particle characteristics</b>
No data available

**9.2 Other information**

<b>Other information</b>
No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Stable at ambient temperature.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

None, if handled according to intended use.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

None, if handled according to intended use.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	PreWash B
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	potassium hydroxide	1310-58-3	215-181-3
LD50		333	mg/kg bodyweight
Species		rat	
Method		OECD 425	
Source		ECHA	
2	trisodium-nitritotriacetate	5064-31-3	225-768-6
LD50		1740	mg/kg bodyweight
Species		rat	
Method		OECD 401	
Source		ECHA	
3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
LD50		4100	mg/kg bodyweight
Species		rat	

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Method	OECD 401
Source	ECHA
<b>4</b>	<b>2-butoxyethanol</b> <b>111-76-2</b> <b>203-905-0</b>
LD50	1746 mg/kg bodyweight
Species	rat
Method	OECD 401
Source	ECHA

**Acute dermal toxicity (result of the ATE calculation for the mixture)**

No	Product Name
<b>1</b>	<b>PreWash B</b>
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).

**Acute dermal toxicity**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
<b>2</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
LD50	>	2000	mg/kg bodyweight
Species	guinea pig		
Method	OECD 402		
Source	ECHA		

**Acute inhalational toxicity (result of the ATE calculation for the mixture)**

No	Product Name
<b>1</b>	<b>PreWash B</b>
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

**Acute inhalational toxicity**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitritotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
LC50	>	5	mg/l
Duration of exposure		4	h
State of aggregation	Dust		
Species	rat		
Source	ECHA		
<b>2</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
ATE		1,5	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		

**Skin corrosion/irritation**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>potassium hydroxide</b>	<b>1310-58-3</b>	<b>215-181-3</b>
Species	rabbit		
Method	OECD 404		

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Source Evaluation	ECHA corrosive		
<b>2</b>	<b>trisodium-nitrilotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		
<b>3</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
<b>4</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
Duration of exposure		4	h
Species	rabbit		
Method	EU B.4		
Source	ECHA		
Evaluation	irritant		

**Serious eye damage/irritation**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>potassium hydroxide</b>	<b>1310-58-3</b>	<b>215-181-3</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	corrosive		
<b>2</b>	<b>trisodium-nitrilotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
<b>3</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	strongly irritant		
<b>4</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
Duration of exposure		24	h
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	Irritating to eyes		

**Respiratory or skin sensitisation**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>potassium hydroxide</b>	<b>1310-58-3</b>	<b>215-181-3</b>
Route of exposure	Skin		
Species	guinea pig		
Source	ECHA		
Evaluation	non-sensitizing		
<b>2</b>	<b>trisodium-nitrilotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
<b>3</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>

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Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
<b>4</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
<b>Germ cell mutagenicity</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>potassium hydroxide</b>	<b>1310-58-3</b>	<b>215-181-3</b>
Type of examination	Ames-Test		
Species	Bacteria - Salmonella typhimurium		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>trisodium-nitritotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>4</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>Reproduction toxicity</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>trisodium-nitritotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
Species	rat		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>Carcinogenicity</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
Species	rat		
Method	OECD 451		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>STOT - single exposure</b>			
No data available			
<b>STOT - repeated exposure</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>trisodium-nitritotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
Route of exposure	dermal		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

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Route of exposure	inhalational
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Route of exposure	oral
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	
No data available	

**11.2 Information on other hazards****Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
1	potassium hydroxide	1310-58-3	215-181-3
LC50		80	mg/l
Duration of exposure		96	h
Species	Gambusia affinis		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	trisodium-nitritotriacetate	5064-31-3	225-768-6
LC50		114	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Source	ECHA		
3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
LC50		7,1	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		
4	2-butoxyethanol	111-76-2	203-905-0
LC50	>	1474	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		

<b>Toxicity to fish (chronic)</b>			
No	Substance name	CAS no.	EC no.
1	trisodium-nitritotriacetate	5064-31-3	225-768-6
NOEC	>	54	mg/l
Duration of exposure		224	day(s)
Species	Pimephales promelas		
Source	ECHA		
2	2-butoxyethanol	111-76-2	203-905-0
NOEC	>	100	mg/l
Duration of exposure		21	day(s)
Species	Danio rerio		
Method	OECD 204		

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Source	ECHA
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Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
EC50		7,4	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
2	2-butoxyethanol	111-76-2	203-905-0
EC50		1550	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	trisodium-nitrilotriacetate	5064-31-3	225-768-6
NOEC		9,3	mg/l
Duration of exposure		147	day(s)
Species	Daphnia magna		
Source	ECHA		
2	2-butoxyethanol	111-76-2	203-905-0
NOEC		100	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	trisodium-nitrilotriacetate	5064-31-3	225-768-6
ErC50		>	91,5
Duration of exposure			72
Species	Desmodesmus subspicatus		mg/l
Method	OECD 201		h
Source	ECHA		
2	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
ErC50		27,7	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
3	2-butoxyethanol	111-76-2	203-905-0
EC50		911	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
1	trisodium-nitrilotriacetate	5064-31-3	225-768-6
NOEC		1,43	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		

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Method	OECD 201		
Source	ECHA		
<b>2</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
NOEC		0,95	mg/l
Duration of exposure		72	h
Species	Desmodosmus subspicatus		
Method	OECD 201		
Source	ECHA		

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
EC50	>	10000	mg/l
Duration of exposure		16	h
Species	Pseudomonas putida		
Method	DIN 38412 T.8		
Source	ECHA		

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitritotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
Value		100	%
Duration		14	d
Method	OECD 301 E		
Source	ECHA		
Evaluation	readily biodegradable		
<b>2</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
Type	DOC decrease		
Value		100	%
Duration		14	day(s)
Source	ECHA		
Evaluation	readily biodegradable		
<b>3</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
Type	aerobic biodegradation		
Value		90,4	%
Duration		28	day(s)
Method	OECD 301 B		
Source	ECHA		
Evaluation	readily biodegradable		

## 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
log Pow		0,81	
Reference temperature		25	°C
Source	ECHA		

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to

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vPvB assessment	<p>be PBT.</p> <p>According to the information provided in the supply chain, the mixture does not contain &gt; 0.1% of a substance that is considered to be vPvB.</p>
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**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

<b>Other information</b>
Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

Class	8
Classification code	C5
Packing group	II
Hazard identification no.	80
UN number	UN1814
Proper shipping name	POTASSIUM HYDROXIDE SOLUTION
Tunnel restriction code	E
Label	8

**14.2 Transport IMDG**

Class	8
Packing group	II
UN number	UN1814
Proper shipping name	POTASSIUM HYDROXIDE SOLUTION
EmS	F-A, S-B
Label	8

**14.3 Transport ICAO-TI / IATA**

Class	8
Packing group	II
UN number	UN1814
Proper shipping name	Potassium hydroxide solution
Label	8

**14.4 Other information**



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No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.  
Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.  
The surfactants contained in this product comply with the DetVO 648/2004/EC.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

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H351 Suspected of causing cancer.  
H412 Harmful to aquatic life with long lasting effects.

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

**Alterations/supplements:**

Alterations to the previous edition are marked in the left-hand margin.

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