

**Trade name:** Construction Cleaner CTH

**Product no.:** 414999

**Current version :** 1.0.0, issued: 10.08.2020

**Replaced version:** -, issued: -

**Region:** MT

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

### 1.1 Product identifier

**Trade name**

**Construction Cleaner CTH**

### 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

### 1.4 Emergency telephone number

No data available.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Acute Tox. 4; H302

Eye Dam. 1; H318

Met. Corr. 1; H290

Skin Corr. 1; H314

STOT SE 3; H335

**Classification information**

Product is classified as "Corrosive" based on the extrem pH-value, see:

- Regulation 1272/2008 (CLP), Annex. I, number 3.2.2.2 / 3.2.3.1.2)

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



GHS07

**Signal word**

Danger

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

potassium hydroxide

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hexyl D-glucoside**Hazard statement(s)**H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.**Precautionary statement(s)**P260 Do not breathe 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.**Supplemental label elements**Regulation (EC) No 648/2004 on detergents (Annex VII):  
5-15% non-ionic surfactants**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	>= 10,00 - < 25,00	%-b.w.
2	<b>2-aminoethanol</b>			
	141-43-5 205-483-3 603-030-00-8 01-2119486455-28	Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Chronic 3; H412	>= 10,00 - < 25,00	%-b.w.
3	<b>2-butoxyethanol</b>			
	111-76-2	Acute Tox. 4; H302	>= 10,00 - < 25,00	%-b.w.

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	203-905-0 603-014-00-0 01-2119475108-36	Acute Tox. 4; H312 Acute Tox. 4; H332 Eye Irrit. 2; H319 Skin Irrit. 2; H315		
4	<b>hexyl D-glucoside</b>			
	54549-24-5 259-217-6 - 01-2119492545-29	Eye Dam. 1; H318	>= 5,00 - < 10,00	%-b.w.

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

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	-	STOT SE 3; H335: C >= 5%	-	-

**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.

**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**

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 out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

**4.2 Most important symptoms and effects, both acute and delayed****Effects**

After eye contact: Danger of blindness!

**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**

Water spray jet; Foam; Carbon dioxide; Dry chemical extinguisher

**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: Corrosive gases/vapours; Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

**5.3 Advice for firefighters**

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Use self-contained breathing apparatus. Wear full protective suit.

**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. Do not inhale vapours/aerosols.

**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. In case of entry into waterways, soil or drains, inform the responsible authorities.

**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 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-aminoethanol	141-43-5	205-483-3
<b>Occupational Exposure Limit Values (Schedule V, Occupational Health and Safety Authority Act)</b>			
	2-Aminoethanol		
	WEL short-term (15 min reference period)	7.6	mg/m <sup>3</sup> 3 ppm

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	WEL long-term (8-hr TWA reference period)	2,5	mg/m <sup>3</sup>	1	ppm
	Comments	Skin			
<b>2006/15/EC</b>					
2-Aminoethanol					
	WEL short-term (15 min reference period)	7,6	mg/m <sup>3</sup>	3	ppm
	WEL long-term (8-hr TWA reference period)	2,5	mg/m <sup>3</sup>	1	ppm
	Skin resorption / sensibilisation	Skin			
<b>2</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>		<b>203-905-0</b>	
<b>Occupational Exposure Limit Values (Schedule V, Occupational Health and Safety Authority Act)</b>					
2-Butoxyethanol					
	WEL short-term (15 min reference period)	246	mg/m <sup>3</sup>	50	ml/m <sup>3</sup>
	WEL long-term (8-hr TWA reference period)	98	mg/m <sup>3</sup>	20	ml/m <sup>3</sup>
<b>Occupational Exposure Limit Values (Schedule V, Occupational Health and Safety Authority Act)</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	Skin			
<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			

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

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	potassium hydroxide			<b>1310-58-3</b> <b>215-181-3</b>
	inhalative	Long term (chronic)	local	1 mg/m <sup>3</sup>
2	2-aminoethanol			<b>141-43-5</b> <b>205-483-3</b>
	dermal	Long term (chronic)	systemic	1 mg/kg/day
	inhalative	Long term (chronic)	local	3,3 mg/m <sup>3</sup>
3	2-butoxyethanol			<b>111-76-2</b> <b>203-905-0</b>
	dermal	Long term (chronic)	systemic	125,00 mg/kg/day
	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>
4	hexyl D-glucoside			<b>54549-24-5</b> <b>259-217-6</b>
	dermal	Long term (chronic)	systemic	595000 mg/kg/day
	inhalative	Long term (chronic)	systemic	420 mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	potassium hydroxide			<b>1310-58-3</b> <b>215-181-3</b>
	inhalative	Long term (chronic)	local	1 mg/m <sup>3</sup>
2	2-aminoethanol			<b>141-43-5</b> <b>205-483-3</b>
	oral	Long term (chronic)	local	3,75 mg/kg/day
	dermal	Long term (chronic)	systemic	0,24 mg/kg/day
	inhalative	Long term (chronic)	local	2 mg/m <sup>3</sup>

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3	<b>2-butoxyethanol</b>			<b>111-76-2 203-905-0</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>
4	<b>hexyl D-glucoside</b>			<b>54549-24-5 259-217-6</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>

**PNEC values**

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	<b>2-aminoethanol</b>		<b>141-43-5 205-483-3</b>
	water	fresh water	0,085 mg/L
	water	marine water	0,0085 mg/L
	water	Aqua intermittent	0,028 mg/L
	water	fresh water sediment	0,434 mg/L
	water	marine water sediment	0,0434 mg/L
	soil	-	0,0367 mg/kg dry weight
	sewage treatment plant	-	100 mg/L
2	<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
3	<b>hexyl D-glucoside</b>		<b>54549-24-5 259-217-6</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
	sewage treatment plant	-	100 mg/L
	secondary poisoning	-	111,11 mg/kg
	with reference to: food		

**8.2 Exposure controls****Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust

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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. combination filter  
Respirator A/P2

**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.

Appropriate Material	nitrile		
Material thickness		0,7	mm
Breakthrough time	>=	480	min

**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**

<b>Form/Colour</b>	
liquid	
yellowish	
<b>Odour</b>	
characteristic	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
Value	14
<b>Boiling point / boiling range</b>	
No data available	
<b>Melting point / melting range</b>	
No data available	
<b>Decomposition point / decomposition range</b>	
No data available	
<b>Flash point</b>	
No data available	
<b>Auto-ignition temperature</b>	
No data available	
<b>Oxidising properties</b>	
No data available	
<b>Explosive properties</b>	

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No data available			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
No data available			
<b>Upper flammability or explosive limits</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	1,25	g/cm <sup>3</sup>	
Reference temperature	20	°C	
<b>Solubility in water</b>			
No data available			
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
1	2-aminoethanol	141-43-5	205-483-3
log Pow		-2,3	
Reference temperature		25	°C
Method	OECD 107		
Source	ECHA		
2	2-butoxyethanol	111-76-2	203-905-0
log Pow		0,81	
Reference temperature		25	°C
Source	ECHA		
<b>Viscosity</b>			
No data available			

**9.2 Other information**

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

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

No data available.

**10.2 Chemical stability**

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

**10.3 Possibility of hazardous reactions**

Formation of hydrogen gas possible on contact with certain metals (f.e. aluminium); Strong exothermic reactions with acids



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None, if handled according to intended use.

**10.5 Incompatible materials**

strong acids; strong oxidizing agents; base metals

**10.6 Hazardous decomposition products**

None, if handled according to intended use.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Construction Cleaner CTH
ATE (Mixture)	1169,43
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.

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	2-aminoethanol	141-43-5	205-483-3
LD50		1089	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
3	2-butoxyethanol	111-76-2	203-905-0
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
1	Construction Cleaner CTH
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.
1	2-aminoethanol	141-43-5	205-483-3
LD50		2504	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
2	2-butoxyethanol	111-76-2	203-905-0
LD50		> 2000	mg/kg bodyweight
Species	guinea pig		
Method	OECD 402		
Source	ECHA		

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Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Construction Cleaner CTH
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.
1	2-aminoethanol	141-43-5	205-483-3
LC50	>	1,487	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
2	2-butoxyethanol	111-76-2	203-905-0
ATE		1,5	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		

Skin corrosion/irritation	
No data available	

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	potassium hydroxide	1310-58-3	215-181-3
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	corrosive		
2	2-aminoethanol	141-43-5	205-483-3
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	corrosive		
3	2-butoxyethanol	111-76-2	203-905-0
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.
1	potassium hydroxide	1310-58-3	215-181-3
Route of exposure	Skin		
Species	guinea pig		
Source	ECHA		
Evaluation	non-sensitizing		
2	2-aminoethanol	141-43-5	205-483-3
Route of exposure	Skin		
Species	guinea pig		
Source	ECHA		
Evaluation	non-sensitizing		

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3	2-butoxyethanol	111-76-2	203-905-0
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	potassium hydroxide	1310-58-3	215-181-3
Type of examination	Ames-Test		
Species	Bacteria - Salmonella typhimurium		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	2-aminoethanol	141-43-5	205-483-3
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	2-butoxyethanol	111-76-2	203-905-0
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	2-aminoethanol	141-43-5	205-483-3
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	2-butoxyethanol	111-76-2	203-905-0
Species	rat		
Method	OECD 451		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure			
No data available			

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	2-aminoethanol	141-43-5	205-483-3
Route of exposure	oral		
NOAEL		300	mg/kg bw/d
Species	rat		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	inhalational		
NOEC		10	mg/m <sup>3</sup>
Species	rat		
Method	OECD 412		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Aspiration hazard			
No data available			

**SECTION 12: Ecological information**

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## 12.1 Toxicity

Toxicity to fish (acute)			
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	2-aminoethanol	141-43-5	205-483-3
LC50		349	mg/l
Duration of exposure		96	h
Species	Cyprinus carpio		
Method	440/2008/EC C.1.		
Source	ECHA		
3	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		

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	2-aminoethanol	141-43-5	205-483-3
NOEC		1,24	mg/l
Duration of exposure		41	day(s)
Species	Oryzias latipes		
Method	OECD 210		
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		
Source	ECHA		

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	2-aminoethanol	141-43-5	205-483-3
EC50		65	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	440/2008/EC C.2.		
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	2-aminoethanol	141-43-5	205-483-3
NOEC		0,85	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		

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Source	ECHA		
<b>2</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
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.
<b>1</b>	<b>2-aminoethanol</b>	<b>141-43-5</b>	<b>205-483-3</b>
EC50		2,8	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
<b>2</b>	<b>2-butoxyethanol</b>	<b>111-76-2</b>	<b>203-905-0</b>
EC50		911	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-aminoethanol</b>	<b>141-43-5</b>	<b>205-483-3</b>
EC10		>	1000
Duration of exposure		30	min
Species	activated sludge		
Method	OECD 209		
Source	ECHA		

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-aminoethanol</b>	<b>141-43-5</b>	<b>205-483-3</b>
Type	aerobic biodegradation		
Value		>	90
Duration		21	day(s)
Method	OECD 301 A		
Source	ECHA		
Evaluation	readily biodegradable		
<b>2</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

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>2-aminoethanol</b>	<b>141-43-5</b>	<b>205-483-3</b>
BCF		2,3	- 9,2
Method	Calculation model used (Q)SAR		

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Source	ECHA		
<b>Partition coefficient: n-octanol/water</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
1	2-aminoethanol	141-43-5	205-483-3
log Pow		-2,3	
Reference temperature		25	°C
Method	OECD 107		
Source	ECHA		
<b>2</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**

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

**12.6 Other adverse effects**

No data available.

**12.7 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**

Residuals 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	UN1719
Proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S.
Technical name	potassium hydroxide

**Trade name:** Construction Cleaner CTH**Product no.:** 414999**Current version :** 1.0.0, issued: 10.08.2020**Replaced version:** -, issued: -**Region:** MT

Tunnel restriction code	2-aminoethanol
Label	E
	8

**14.2 Transport IMDG**

Class	8
Packing group	II
UN number	UN1719
Proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S.
Technical name	potassium hydroxide 2-aminoethanol
EmS	F-A, S-B
Label	8

**14.3 Transport ICAO-TI / IATA**

Class	8
Packing group	II
UN number	UN1719
Proper shipping name	Caustic alkali liquid, n.o.s.
Technical name	potassium hydroxide 2-aminoethanol
Label	8

**14.4 Other information**

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 Transport in bulk according to Annex II of Marpol and the IBC Code**

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, PREPARATIONS AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe 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.

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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)

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

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