

**Trade name:** Vorreiniger B**Product no.:** 211999**Current version :** 1.1.0, issued: 31.03.2021**Replaced version:** 1.0.0, issued: 09.07.2020**Region:** MT**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****Vorreiniger 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

**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)**

Carc. 2; H351

Eye Dam. 1; H318

Skin Irrit. 2; H315

STOT SE 3; H335

**Classification information**

Classification and labelling with respect to corrosivity and irritation to skin are based on toxicological studies performed on the product (mixture).

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



GHS08

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**2-propylheptane-1-ol, ethoxylated  
trisodium-nitrilotriacetate

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2-aminoethanol

**Hazard statement(s)**

H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H335 May cause respiratory irritation.  
 H351 Suspected of causing cancer.

**Precautionary statement(s)**

P201 Obtain special instructions before use.  
 P261 Avoid breathing vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**Supplemental label elements**

Regulation (EC) No 648/2004 on detergents (Annex VII):  
 5-15% non-ionic surfactants  
 5-15% anionic surfactants  
 5-15% NTA (nitrilotriacetic acid) and salts thereof

**2.3 Other hazards**

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.

**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>2-propylheptane-1-ol, ethoxylated</b>			
	160875-66-1 - - -	Eye Dam. 1; H318 Acute Tox. 4; H302	>= 10,00 - < 25,00	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 - < 10,00	wt%
3	<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	>= 5,00 - < 10,00	wt%

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		Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Chronic 3; H412		
4	<b>sodium p-cumenesulphonate</b>			
	15763-76-5 239-854-6 - 01-2119489411-37	Eye Irrit. 2; H319	< 5,00	wt%
5	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>			
	68891-38-3 500-234-8 - 01-2119488639-16	Eye Dam. 1; H318 Skin Irrit. 2; H315 Aquatic Chronic 3; H412	< 5,00	wt%
6	<b>sodium hydroxide</b>			
	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27	Skin Corr. 1A; H314 Met. Corr. 1; H290 Eye Dam. 1; H318	< 2,50	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)
2	-	Carc. 2; H351: C >= 5%	-	-
3	-	STOT SE 3; H335: C >= 5%	-	-
5	-	Eye Irrit. 2; H319: C >= 5% Eye Dam. 1; H318: C >= 10%	-	-
6	-	Skin Irrit. 2; H315: C >= 0,5% Eye Irrit. 2; H319: C >= 0,5% Skin Corr. 1B; H314: C >= 2% Skin Corr. 1A; H314: C >= 5%	-	-

**Acute toxicity estimate (ATE) values**

No	oral	dermal	inhalative
2	1740 mg/kg bodyweight		
3	1089 mg/kg bodyweight	1100 mg/kg bodyweight	11 mg/l

**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.

**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. In case of persisting adverse effects consult a physician.

**After skin contact**

Wash immediately with plenty of water for several minutes. Consult a doctor if skin irritation persists.

**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**

No data available.

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#### 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: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Nitrogen oxides (NO<sub>x</sub>); Sulphur oxides (SxO<sub>y</sub>)

#### 5.3 Advice for firefighters

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.

**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 of same material as the original.

**Incompatible products**

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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
	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	

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

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	trisodium-nitrilotriacetate			<b>5064-31-3</b> <b>225-768-6</b>
	inhalative	Short term (acut)	systemic	2,4 mg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	0,8 mg/cm <sup>2</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	sodium p-cumenesulphonate			<b>15763-76-5</b> <b>239-854-6</b>
	dermal	Long term (chronic)	systemic	7,6 mg/kg/day
	inhalative	Long term (chronic)	systemic	53,6 mg/m <sup>3</sup>
4	Alcohols, C12-14, ethoxylated, sulfates, sodium salts			<b>68891-38-3</b> <b>500-234-8</b>
	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	sodium hydroxide			<b>1310-73-2</b> <b>215-185-5</b>
	inhalative	Long term (chronic)	local	1 mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	trisodium-nitrilotriacetate			<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>

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	inhalative	Long term (chronic)	systemic	3,2	mg/cm <sup>2</sup>
2	<b>2-aminoethanol</b>			<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>
3	<b>sodium p-cumenesulphonate</b>			<b>15763-76-5</b> <b>239-854-6</b>	
	oral	Long term (chronic)	systemic	3,8	mg/kg/day
	dermal	Long term (chronic)	systemic	3,8	mg/kg/day
	inhalative	Long term (chronic)	systemic	13,2	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>sodium hydroxide</b>			<b>1310-73-2</b> <b>215-185-5</b>	
	inhalative	Long term (chronic)	local	1	mg/m <sup>3</sup>

## PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	
1	<b>trisodium-nitrilotriacetate</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>2-aminoethanol</b>		<b>141-43-5</b> <b>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
3	<b>sodium p-cumenesulphonate</b>		<b>15763-76-5</b> <b>239-854-6</b>
	water	fresh water	0,23 mg/L
	water	Aqua intermittent	2,3 mg/L
	sewage treatment plant	-	100 mg/L
4	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>		<b>68891-38-3</b> <b>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

## 8.2 Exposure controls

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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. Respiratory protection mask with combination filter.

Respirator A2 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 workstation 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	butyl rubber		
Material thickness	>	0,7	mm
Breakthrough time	>	120	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>State of aggregation</b>	
liquid	
<b>Form/Colour</b>	
liquid	
green	
<b>Odour</b>	
characteristic	
<b>pH value</b>	
Value	13
<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>	
Not applicable	
<b>Ignition temperature</b>	
No data available	
<b>Explosive properties</b>	

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The product does not have explosive properties.

**Flammability**

No data available

**Lower explosion limit**

No data available

**Upper explosion limit**

No data available

**Vapour pressure**

No data available

**Relative vapour density**

No data available

**Relative density**

No data available

**Density**

Value	1,1	g/cm <sup>3</sup>
Reference temperature	20	°C

**Solubility in water**

Comments	miscible
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**Solubility**

No data available

**Partition coefficient n-octanol/water (log value)**

No	Substance name	CAS no.	EC no.
1	2-aminoethanol	141-43-5	205-483-3
log Pow		-2,3	
Reference temperature		25	°C
Method		OECD 107	
Source		ECHA	

**Viscosity**

No data available

**Particle characteristics**

No data available

**9.2 Other information****Other information**

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**

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**

strong acids; strong oxidizing agents



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**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	Vorreiniger 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	trisodium-nitritotriacetate	5064-31-3	225-768-6
LD50		1740	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
2	2-aminoethanol	141-43-5	205-483-3
LD50		1089	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
3	sodium p-cumenesulphonate	15763-76-5	239-854-6
LD50		> 7000	mg/kg bodyweight
Species	rat		
with reference to	CAS 28348-53-0		
Method	OECD 401		
Source	ECHA		
4	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3	500-234-8
LD50		4100	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	Vorreiniger 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.
1	2-aminoethanol	141-43-5	205-483-3
LD50		2504	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		
2	sodium p-cumenesulphonate	15763-76-5	239-854-6
LD50		> 2000	mg/kg bodyweight

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Species with reference to Method Source	rabbit CAS 28348-53-0 OECD 402 ECHA
<b>3</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 Method Source	rat OECD 402 ECHA

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

No	Product Name
<b>1</b>	<b>Vorreiniger 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-nitrilotriacetate</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 Method Source	rat OECD 402 ECHA		
<b>2</b>	<b>2-aminoethanol</b>	<b>141-43-5</b>	<b>205-483-3</b>
LC50	>	1,487	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species Method Source	rat OECD 403 ECHA		
<b>3</b>	<b>sodium p-cumenesulphonate</b>	<b>15763-76-5</b>	<b>239-854-6</b>
LC50	>	6,41	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species with reference to Method Source	rat CAS 28348-53-0 ECHA		

**Skin corrosion/irritation**

No	Product Name
<b>1</b>	<b>Vorreiniger B</b>
Method Evaluation	OECD 431 irritant

**Serious eye damage/irritation**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitrilotriacetate</b>	<b>5064-31-3</b>	<b>225-768-6</b>
Species Method Source Evaluation	rabbit OECD 405 ECHA irritant		
<b>2</b>	<b>2-aminoethanol</b>	<b>141-43-5</b>	<b>205-483-3</b>
Species Method	rabbit OECD 405		

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Source Evaluation	ECHA corrosive
<b>3</b>	<b>sodium p-cumenesulphonate</b> <b>15763-76-5</b> <b>239-854-6</b>
Species	rabbit
Method	OECD 405
Source	ECHA
Evaluation	irritant
<b>4</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

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>trisodium-nitritotriacetate</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>2</b>	<b>2-aminoethanol</b>	<b>141-43-5</b>	<b>205-483-3</b>
Route of exposure	Skin		
Species	guinea pig		
Source	ECHA		
Evaluation	non-sensitizing		
<b>3</b>	<b>sodium p-cumenesulphonate</b>	<b>15763-76-5</b>	<b>239-854-6</b>
Route of exposure	Skin		
Species	guinea pig		
with reference to	CAS 28348-53-0		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
<b>4</b>	<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b>	<b>68891-38-3</b>	<b>500-234-8</b>
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
<b>5</b>	<b>sodium hydroxide</b>	<b>1310-73-2</b>	<b>215-185-5</b>
Route of exposure	Skin		
Species	Human		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
<b>1</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>2</b>	<b>2-aminoethanol</b>	<b>141-43-5</b>	<b>205-483-3</b>
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>sodium p-cumenesulphonate</b>	<b>15763-76-5</b>	<b>239-854-6</b>
Type of examination with reference to	Chromosome aberration test CAS 28348-53-0		

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Method	OECD 474
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>4</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.

Reproduction 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>
Species	rat		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>2-aminoethanol</b>	<b>141-43-5</b>	<b>205-483-3</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.		

Carcinogenicity	
No data available	

STOT - single exposure	
No data available	

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
<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.		
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>2</b>	<b>2-aminoethanol</b>	<b>141-43-5</b>	<b>205-483-3</b>
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	

## 11.2 Information on other hazards

### Endocrine disrupting properties

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No data available.

**Other information**

No data available.

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

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	trisodium-nitrilotriacetate	5064-31-3	225-768-6
LC50		114	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Source	ECHA		
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	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		

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	trisodium-nitrilotriacetate	5064-31-3	225-768-6
NOEC	>	54	mg/l
Duration of exposure		224	day(s)
Species	Pimephales promelas		
Source	ECHA		
2	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		

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	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		
3	sodium hydroxide	1310-73-2	215-185-5

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EC50	40,4	mg/l
Duration of exposure	48	h
Species	Ceriodaphnia spec	
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-aminoethanol	141-43-5	205-483-3
NOEC		0,85	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
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	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
2	2-aminoethanol	141-43-5	205-483-3
EC50		2,8	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
3	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		

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

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	2-aminoethanol	141-43-5	205-483-3
EC10	>	1000	mg/l

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Duration of exposure	30	min
Species	activated sludge	
Method	OECD 209	
Source	ECHA	
<b>2</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-nitrilotriacetate</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>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>3</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		

**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		
Source	ECHA		

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

**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**

The product is not subject to ADR/RID/ADN regulations.

**14.2 Transport IMDG**

The product is not subject to IMDG regulations.

**14.3 Transport ICAO-TI / IATA**

The product is not subject to ICAO-TI / IATA regulations.

**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 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.



**Trade name:** Vorreiniger B**Product no.:** 211999**Current version :** 1.1.0, issued: 31.03.2021**Replaced version:** 1.0.0, issued: 09.07.2020**Region:** MT**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)**

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and 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.

**Alterations/supplements:**

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

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