



## Safety Data Sheet according to (EC) No 1907/2006 as amended

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BONDERITE C-NE 3300 BUILDER FREE NEUTRAL CLEANER

SDS No. : 219065

V011.0

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

#### 1.1. Product identifier

BONDERITE C-NE 3300 BUILDER FREE NEUTRAL CLEANER

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

Intended use:

Cleaners for industrial metal working

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

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

[SDSinfo.Adhesive@henkel.com](mailto:SDSinfo.Adhesive@henkel.com)

#### 1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

Skin irritation

Category 2

H315 Causes skin irritation.

Serious eye damage

Category 1

H318 Causes serious eye damage.

#### 2.2. Label elements

##### Label elements (CLP):

##### Hazard pictogram:



Contains

2-aminoethanol

Signal word:

Danger

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<b>Hazard statement:</b>	H315 Causes skin irritation. H318 Causes serious eye damage.
<b>Supplemental information</b>	Contains: Polyethyleneimine; Aziridine, homopolymer, MG 5000 May produce an allergic reaction.
<b>Precautionary statement: Prevention</b>	P280 Wear protective gloves/eye protection.
<b>Precautionary statement: Response</b>	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 or doctor.

### 2.3. Other hazards

None if used properly.

**Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):**

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
3,5,5-trimethylhexanoic acid, compound with 2-aminoethanol (1:1) 93894-11-2 299-706-1	10- 20 %	Aquatic Chronic 3, H412		
2-aminoethanol 141-43-5 205-483-3 01-2119486455-28	1- < 5 %	Acute Tox. 4, Oral, H302 Acute Tox. 4, Dermal, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 4, Inhalation, H332 STOT SE 3, H335 Aquatic Chronic 3, H412	STOT SE 3; H335; C >= 5 % ===== inhalation:ATE = 1,5 mg/l;dust/mist	EU OEL
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, reaction products with ethanolamine 85117-66-4 285-617-5	1- < 5 %	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Aquatic Chronic 3, H412		
Fatty alcohol C8-10 ,EO-PO, benzylether 68154-99-4	1- < 3 %	Skin Irrit. 2, H315 Eye Dam. 1, H318 Acute Tox. 4, Dermal, H312		
Polyethyleneimine 9002-98-6	0,1- < 1 %	Acute Tox. 4, Oral, H302 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	oral:ATE = 501 mg/kg	
Aziridine, homopolymer, MG 5000 9002-98-6	0,1- < 1 %	Acute Tox. 4, Oral, H302 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 2, H411		

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.

For full text of the H - statements and other abbreviations see section 16 "Other information".

**Declaration of ingredients according to Detergent Regulation 648/2004/EC**

< 5 %

non-ionic surfactants

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Move to fresh air, consult doctor if complaint persists.

#### Skin contact:

IF ON SKIN: Wash with plenty of soap and water.

In case of adverse health effects seek medical advice.

#### Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

#### Ingestion:

Drink 1-2 glasses of water, do not induce vomiting, administer an antifoaming agent (sab simplex), seek medical attention.

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

SKIN: Redness, inflammation.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

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

See section: Description of first aid measures

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media:**

Water spray jet

Carbon dioxide, foam, powder

**Extinguishing media which must not be used for safety reasons:**

High pressure waterjet

**5.2. Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in fires.

**5.3. Advice for firefighters**

Wear protective equipment.

Wear self-contained breathing apparatus.

**Additional information:**

Cool endangered containers with water spray jet.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

Danger of slipping on spilled product.

**6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**

Dispose of contaminated material as waste according to Section 13.

Remove with liquid-absorbing material (sand, peat, sawdust).

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid skin and eye contact.

Ensure that workrooms are adequately ventilated.

See advice in section 8

**Hygiene measures:**

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Take off contaminated clothing and wash before reuse.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

**7.2. Conditions for safe storage, including any incompatibilities**

Store only in the original container.

Store in a cool, frost-free place.

Keep container tightly sealed.

Keep container in a well ventilated place.

**7.3. Specific end use(s)**

Cleaners for industrial metal working

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational Exposure Limits**Valid for  
Germany

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
2-Aminoethanol 141-43-5 [2-AMINOETHANOL]	3	7,6	Short Term Exposure Limit (STEL):	Indicative	ECTLV
2-Aminoethanol 141-43-5 [2-AMINOETHANOL]	1	2,5	Time Weighted Average (TWA):	Indicative	ECTLV
2-Aminoethanol 141-43-5			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
2-Aminoethanol 141-43-5	0,2	0,5	Exposure limit(s):	1 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
2-Aminoethanol 141-43-5			Skin designation:	Can be absorbed through the skin.	TRGS 900
2,2',2''-Nitrilotriethanol 102-71-6			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
2,2',2''-Nitrilotriethanol 102-71-6		1	Exposure limit(s):	1 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900

**Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
2-Aminoethanol 141-43-5	aqua (freshwater)		0,07 mg/l				
2-Aminoethanol 141-43-5	aqua (marine water)		0,007 mg/l				
2-Aminoethanol 141-43-5	aqua (intermittent releases)		0,028 mg/l				
2-Aminoethanol 141-43-5	sediment (freshwater)				0,357 mg/kg		
2-Aminoethanol 141-43-5	sediment (marine water)				0,036 mg/kg		
2-Aminoethanol 141-43-5	Soil				1,29 mg/kg		
2-Aminoethanol 141-43-5	sewage treatment plant (STP)		100 mg/l				

**Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
2-Aminoethanol 141-43-5	Workers	inhalation	Long term exposure - systemic effects		1 mg/m <sup>3</sup>	
2-Aminoethanol 141-43-5	Workers	inhalation	Long term exposure - local effects		0,51 mg/m <sup>3</sup>	
2-Aminoethanol 141-43-5	Workers	dermal	Long term exposure - systemic effects		3 mg/kg	
2-Aminoethanol 141-43-5	General population	dermal	Long term exposure - systemic effects		1,5 mg/kg	
2-Aminoethanol 141-43-5	General population	oral	Long term exposure - systemic effects		1,5 mg/kg	
2-Aminoethanol 141-43-5	General population	inhalation	Long term exposure - systemic effects		0,18 mg/m <sup>3</sup>	
2-Aminoethanol 141-43-5	General population	inhalation	Long term exposure - local effects		0,28 mg/m <sup>3</sup>	

**Biological Exposure Indices:**

None

**8.2. Exposure controls:****Engineering controls:**

Ensure good ventilation/suction at the workplace.

**Respiratory protection:**

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

**Hand protection:**

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR;  $\geq$  1 mm thickness) or natural rubber (NR;  $\geq$  1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR;  $\geq$  1 mm thickness) or natural rubber (NR;  $\geq$  1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

**Skin protection:**

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

**Advices to personal protection equipment:**

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Delivery form	liquid
Colour	yellowish
Odor	amine-like
Physical state	liquid
Melting point	Not applicable, Product is a liquid
Solidification temperature	<= 0 °C (<= 32 °F)
Initial boiling point	> 100 °C (> 212 °F)
Flammability	Not applicable Aqueous solution
Explosive limits	Not applicable, Aqueous solution
Flash point	Not applicable, Aqueous solution
Auto-ignition temperature	Not applicable, Aqueous solution
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
pH	9,0 - 9,6 PH-value, potentiometer
(20 °C (68 °F); Conc.: 1,0 % product; Solvent: Demineralised water)	
Viscosity (kinematic)	Not applicable, Aqueous solution
Viscosity, dynamic	2,9 mPa.s no method / method unknown
(Brookfield; Instrument: LV; 40 °C (104 °F))	
Solubility (qualitative)	fully miscible
(20 °C (68 °F); Solvent: Water)	
Partition coefficient: n-octanol/water	Not applicable
	Mixture
Vapour pressure	< 100 mbar
(20 °C (68 °F))	
Density	1,010 - 1,050 g/cm <sup>3</sup> Density, oscillation
(20 °C (68 °F))	
Relative vapour density:	< 1
(20 °C)	
Particle characteristics	Not applicable Product is a liquid

### 9.2. Other information

Other information not applicable for this product

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reaction with strong acids.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

No decomposition if used according to specifications.

#### 10.5. Incompatible materials

See section reactivity.

#### 10.6. Hazardous decomposition products

None if used for intended purpose.

In case of fire toxic gases can be released.

## SECTION 11: Toxicological information

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

#### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
2-aminoethanol 141-43-5	LD50	1.089 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Fatty alcohol C8-10 ,EO- PO, benzylether 68154-99-4	LD50	2.414 mg/kg	rat	not specified
Polyethyleneimine 9002-98-6	Acute toxicity estimate (ATE)	501 mg/kg		Expert judgement
Polyethyleneimine 9002-98-6	LD50	> 500 mg/kg	rat	not specified

#### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
2-aminoethanol 141-43-5	LD50	1.025 mg/kg	rabbit	not specified
Fatty alcohol C8-10 ,EO- PO, benzylether 68154-99-4	LD50	2.000 mg/kg	rabbit	not specified

#### Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
2-aminoethanol 141-43-5	Acute toxicity estimate (ATE)	1,5 mg/l	dust/mist			Expert judgement
2-aminoethanol 141-43-5	LC50	1 - 5 mg/l		4 h	rat	not specified

#### Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
2-aminoethanol 141-43-5	corrosive	4 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Fatty alcohol C8-10 ,EO- PO, benzylether 68154-99-4	irritating		rabbit	not specified
Polyethyleneimine 9002-98-6	not irritating		rabbit	Draize Test



**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
2-aminoethanol 141-43-5	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Fatty alcohol C8-10 ,EO- PO, benzylether 68154-99-4	highly irritating		rabbit	not specified
Polyethyleneimine 9002-98-6	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
2-aminoethanol 141-43-5	not sensitising	Guinea pig maximisation test	guinea pig	not specified

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
2-aminoethanol 141-43-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-aminoethanol 141-43-5	negative	in vitro mammalian chromosome aberration test	without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-aminoethanol 141-43-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
2-aminoethanol 141-43-5	NOAEL P 300 mg/kg NOAEL F1 1.000 mg/kg NOAEL F2 1.000 mg/kg	Two generation study	oral: feed	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

<b>Hazardous substances CAS-No.</b>	<b>Result / Value</b>	<b>Route of application</b>	<b>Exposure time / Frequency of treatment</b>	<b>Species</b>	<b>Method</b>
2-aminoethanol 141-43-5	NOAEL 300 mg/kg	oral: feed	> 75 d daily	rat	other guideline:

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

## SECTION 12: Ecological information

### General ecological information:

Do not empty into drains / surface water / ground water.

The biodegradability of the surfactants contained in the product is in accordance with the requirements of the EU Detergent Regulation (EC/648/2004).

The surfactants contained in the products are primary biodegradable to at least 90% on average.

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
3,5,5-trimethylhexanoic acid, compound with 2- aminoethanol (1:1) 93894-11-2	LC50	> 100 mg/l	96 h	not specified	Weight of evidence
2-aminoethanol 141-43-5	LC50	349 mg/l	96 h	Cyprinus carpio	EU Method C.1 (Acute Toxicity for Fish)
2-aminoethanol 141-43-5	NOEC	1,24 mg/l	41 d	Oryzias latipes	OECD Guideline 210 (fish early lite stage toxicity test)
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, reaction products with ethanolamine 85117-66-4	LC50	> 250 mg/l	48 h	Leuciscus idus	DIN 38412-15
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, reaction products with ethanolamine 85117-66-4	NOEC	1,24 mg/l	41 d	Oryzias latipes	OECD Guideline 210 (fish early lite stage toxicity test)
Polyethyleneimine 9002-98-6	LC50	> 1 - 10 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Aziridine, homopolymer, MG 5000 9002-98-6	LC50	> 1 - 10 mg/l	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)

#### Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
3,5,5-trimethylhexanoic acid, compound with 2- aminoethanol (1:1) 93894-11-2	EC50	> 10 - 100 mg/l	48 h	not specified	Weight of evidence
2-aminoethanol 141-43-5	EC50	27,04 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, reaction products with ethanolamine 85117-66-4	EC50	85 mg/l	24 h	Daphnia magna	not specified
Fatty alcohol C8-10 ,EO-PO, benzylether 68154-99-4	EC50	6,3 mg/l	48 h	Daphnia magna	not specified
Polyethyleneimine 9002-98-6	EC50	> 10 - 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Aziridine, homopolymer, MG 5000 9002-98-6	EC50	18 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

#### Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
2-aminoethanol 141-43-5	NOEC	0,85 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, reaction products with ethanolamine 85117-66-4	NOEC	0,85 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

#### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
3,5,5-trimethylhexanoic acid, compound with 2-aminoethanol (1:1) 93894-11-2	EC50	> 1 - 10 mg/l	72 h	not specified	Weight of evidence
2-aminoethanol 141-43-5	EC50	2,8 mg/l	72 h	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-aminoethanol 141-43-5	EC10	0,7 mg/l	72 h	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, reaction products with ethanolamine 85117-66-4	EC50	2,8 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, reaction products with ethanolamine 85117-66-4	NOEC	1 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

#### Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
2-aminoethanol 141-43-5	EC10	> 1.000 mg/l	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, reaction products with ethanolamine 85117-66-4	EC50	> 1.000 mg/l	3 h		OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Fatty alcohol C8-10 ,EO-PO, benzylether 68154-99-4	IC50	4.900 mg/l	16 h		not specified
Polyethyleneimine 9002-98-6	EC10	0,11 mg/l	17 h		not specified
Aziridine, homopolymer, MG 5000 9002-98-6	EC10	0,4 mg/l	17 h		DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)

#### 12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
3,5,5-trimethylhexanoic acid, compound with 2-aminoethanol (1:1) 93894-11-2	readily biodegradable		> 60 %	28 d	Weight of evidence
2-aminoethanol 141-43-5	readily biodegradable	aerobic	> 80 %	19 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
1,2,3-Propanetricarboxylic acid, 2-hydroxy-, reaction products with ethanolamine 85117-66-4	readily biodegradable	aerobic	> 80 %	19 d	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Fatty alcohol C8-10 ,EO-PO, benzylether 68154-99-4	readily biodegradable	not specified	> 60 %	28 day	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Polyethyleneimine 9002-98-6	not inherently biodegradable	aerobic	20 - 70 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Polyethyleneimine 9002-98-6	not readily biodegradable.	aerobic	> 0 - < 60 %	28 d	OECD 301 A - F
Aziridine, homopolymer, MG 5000 9002-98-6		aerobic	20 - 70 %		OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)

### 12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Fatty alcohol C8-10 ,EO-PO, benzylether 68154-99-4	90			fish	not specified

### 12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
3,5,5-trimethylhexanoic acid, compound with 2-aminoethanol (1:1) 93894-11-2	0,04		QSAR (Quantitative Structure Activity Relationship)
2-aminoethanol 141-43-5	-1,91	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Fatty alcohol C8-10 ,EO-PO, benzylether 68154-99-4	3,46		not specified

### 12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT / vPvB
2-aminoethanol 141-43-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

### 12.6. Endocrine disrupting properties

not applicable

### 12.7. Other adverse effects

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 - 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

070604

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

### SECTION 14: Transport information

#### 14.1. UN number or ID number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EU)	3,6 %

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

#### National regulations/information (Germany):

WGK: WGK 2: significantly water endangering (Ordinance on facilities for handling substances that are hazardous to water (AwSV) )  
Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510: 10

**SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

**Further information:**

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