

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 11.03.2025

Version number 115.61 (replaces version 115.60)

Revision: 10.03.2025

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

##### - 1.1 Product identifier

- Trade name **Cleaner 12**

- Article number: 437337

- UFI: 8990-U0CF-W001-8JC8

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

###### - Restrictions on use:

Restrictions on use according to REGULATION (EC) No 1907/2006 ANNEX XVII apply to this product (see section 15).

- Application of the substance / the mixture *Cleaning agent / Cleaner*

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

###### - Manufacturer/Supplier:

PERKUTE - Maschinenbau GmbH

Düsterbergstr. 10

D-48432 Rheine

Tel. ++ 49 / 59 71 / 80 81 68 - 0

Fax ++ 49 / 59 71 / 80 81 68 - 1

E-Mail: [info@perkute.de](mailto:info@perkute.de)

- Informing department: *Product safety department*

##### - 1.4 Emergency telephone number:

This is an English-language document designed for the European region. For the emergency number and other country-specific data, please refer to the specific national versions of this safety data sheet.

Counselling Centre for Poisoning, Mainz

Tel. (+49) 61 31 / 19 240.

#### \* SECTION 2: Hazards identification

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

###### - Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

##### - 2.2 Label elements

###### - Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

###### - Hazard pictograms



GHS05

- Signal word *Danger*

###### - Hazard-determining components of labelling:

2-aminoethanol

Amines, coco alkyl, ethoxylated

###### - Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

###### - Precautionary statements

P264 Wash thoroughly after handling.

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

P302+P352 IF ON SKIN: Wash with plenty of water/-

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing.

**- Additional information:**

According to the current state of knowledge, no synthetic polymer microparticles &gt; 0.01% are contained.

**- 2.3 Other hazards****- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**- Determination of endocrine-disrupting properties**

95-14-7 benzotriazole

List II

**SECTION 3: Composition/information on ingredients****- 3.2 Mixtures****- Description:** Mixture of the following substances with non-hazardous additions.**- Dangerous components:**

CAS: 7320-34-5 EINECS: 230-785-7 Reg.nr.: 01-2119489369-18	tetrapotassium pyrophosphate Eye Irrit. 2, H319	≥2,5-<10%
	isononanoic acid and neutralisation products Acute Tox. 4, H302; Eye Irrit. 2, H319	≥2,5-<10%
CAS: 102-71-6 EINECS: 203-049-8 Reg.nr.: 01-2119486482-31	Triethanolamine substance with a Community workplace exposure limit	2,5-10%
CAS: 141-43-5 EINECS: 205-483-3 Reg.nr.: 01-2119486455-28	2-aminoethanol Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412 Specific concentration limit: STOT SE 3; H335: C ≥ 5 % substance with a Community workplace exposure limit	≥1-<2,5%
CAS: 111905-52-3 Polymer	Alcohols , C9-11, butoxylated, ethoxylated Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	<2,5%
CAS: 61791-14-8 NLP: 500-152-2	Amines, coco alkyl, ethoxylated Eye Dam. 1, H318; Acute Tox. 4, H302	≥1-≤2,5%
CAS: 95-14-7 EINECS: 202-394-1 Reg.nr.: 01-2119979079-20	benzotriazole Aquatic Chronic 2, H411; Acute Tox. 4, H302; Eye Irrit. 2, H319 Substance with a Community workplace exposure limit. Substance identified as having endocrine disrupting properties (II).	≥0,25-≤1%

**- SVHC**

This preparation does not contain any substances of very high concern (SVHC) in a concentration of ≥ 0.1 % according to Regulation (EC) 1907/2006, Article 57.

**- Additional information** For the wording of the listed hazard phrases refer to section 16.**- Composition/Ingredients**

Constituents according to EC-Regulation 648/2004:

5 - 15 % phosphates,

&lt; 5 % non-ionic surfactants,

Other ingredients: Amines, salts of organic acids, inhibitors and solubilisers.

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#### SECTION 4: First aid measures

##### - 4.1 Description of first aid measures

- **General advice:** If unconscious, position and transport in stable lateral position.

##### - After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- **After skin contact** Instantly rinse with water.

##### - After eye contact

Use eye protection.

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

##### - After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

##### - 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

##### - 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### SECTION 5: Firefighting measures

##### - 5.1 Extinguishing media

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.

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

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire:

carbon monoxide (CO)

carbon dioxide (CO<sub>2</sub>)

Nitrogen oxides (NO<sub>x</sub>)

##### - 5.3 Advice for firefighters

- **Protective equipment:** Wear full protective suit with self-contained breathing apparatus.

- **Additional information** Cool endangered containers in the vicinity with a water spray jet.

#### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep off unprotected persons

Ensure adequate ventilation

##### - 6.2 Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

In case of release of larger quantities, inform competent authorities.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

##### - 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

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### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Open and handle container with care.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage** Store in cool, dry conditions in well sealed containers.
- **Requirements to be met by storerooms and containers:**  
Observe laws and regulations on the storage and use of substances hazardous to water.  
Store in the delivery container or in PE containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from frost.
- **Storage class 12** (VCI - Konzept, 2007)
- **7.3 Specific end use(s)** No further relevant information available.

### \* SECTION 8: Exposure controls/personal protection

#### - 8.1 Control parameters

- **Components with critical values that require monitoring at the workplace:**

#### 102-71-6 Triethanolamine

AGW (Germany)	Long-term value: 1 E mg/m <sup>3</sup> 1(I);DFG, Y
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#### 141-43-5 2-aminoethanol

AGW (Germany)	Long-term value: 0,5 mg/m <sup>3</sup> , 0,2 ppm 1(I);DFG, EU, H, Y, Sh, 11
IOELV (EU)	Short-term value: 7,6 mg/m <sup>3</sup> , 3 ppm Long-term value: 2,5 mg/m <sup>3</sup> , 1 ppm Skin

#### 95-14-7 benzotriazole

MAK (Germany)	vgl. Abschn. Xc, Dampf und Aerosol
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#### - DNELs

#### 7320-34-5 tetrapotassium pyrophosphate

Oral	DNEL (population)	>70 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	2,79-44,08 mg/m <sup>3</sup> (Long-term, systemic effects)
	DNEL (population)	0,68-10,87 mg/m <sup>3</sup> (Long-term, systemic effects)

#### 102-71-6 Triethanolamine

Oral	DNEL (population)	3,3 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	7,5 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (population)	2,66 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	0,14 mg/cm <sup>2</sup> (Long-term, local effects)
	DNEL (population)	0,07 mg/cm <sup>2</sup> (Long-term, local effects)
	DNEL (worker)	1 mg/m <sup>3</sup> (Long-term, local effects)
Inhalative	DNEL (worker)	1 mg/m <sup>3</sup> (Long-term, local effects)
	DNEL (population)	0,4 mg/m <sup>3</sup> (Long-term, local effects)

#### 141-43-5 2-aminoethanol

Oral	DNEL (population)	1,5 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	3 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	1,5 mg/kg bw/day (Long-term, systemic effects)

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Inhalative	DNEL (worker)	1 mg/m <sup>3</sup> (Long-term, systemic effects) 0,51 mg/m <sup>3</sup> (Long-term, local effects)
	DNEL (population)	0,18 mg/m <sup>3</sup> (Long-term, systemic effects) 0,28 mg/m <sup>3</sup> (Long-term, local effects)

**95-14-7 benzotriazole**

Oral	DNEL (population)	0,12 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	0,24 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	0,12 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	4,2 mg/m <sup>3</sup> (Long-term, systemic effects)
	DNEL (population)	2,1 mg/m <sup>3</sup> (Long-term, systemic effects)

**- PNECs****7320-34-5 tetrapotassium pyrophosphate**

PNEC water	0,05 mg/l (freshwater)
	0,005 mg/l (Seawater)
PNEC	50 mg/l (sewage plant)

**102-71-6 Triethanolamine**

PNEC water	5,12 mg/l (intermittent releases)
PNEC	0,32 mg/l (freshwater)
	0,032 mg/l (Seawater)
PNEC	0,151 mg/kg dw (soil)
PNEC sediment	1,7 mg/kg dw (freshwater)
	0,17 mg/kg dw (Seawater)
PNEC STP	10 mg/l

**141-43-5 2-aminoethanol**

PNEC water	0,07 mg/l (freshwater)
	0,007 mg/l (marine water)
PNEC sediment	0,357 mg/kg dw (freshwater)
	0,0357 mg/kg dw (marine water)
PNEC soil	1,29 mg/kg dw (soil)
PNEC STP	100 mg/l (sewage plant)

**95-14-7 benzotriazole**

PNEC	0,0097 mg/l (Seawater)
	0,097 mg/l (freshwater)
	9,4 mg/l (sewage plant)
PNEC sediment	1,1 mg/kg (freshwater)
	0,11 mg/kg (marine water)
PNEC soil	0,169 mg/kg (soil)
PNEC STP	9,4 mg/l (sewage plant)

- **Additional information:** The lists that were valid during the compilation were used as basis.

**- 8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see section 7.

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures**

The usual precautionary measures should be adhered to in handling the chemicals.

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Gases, fumes and aerosols should not be inhaled.

**- Breathing equipment:**

Respiratory protection mask is not required if appropriately used according to specifications.

**- Recommended filter device for short term use:** Combination filter AB-NO-P3

**- Hand protection** Protective gloves (EN 374).

**- Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**- Penetration time of glove material**

Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves.

**- Eye/face protection** Safety glasses

**- Body protection:** Protective work clothing.

## SECTION 9: Physical and chemical properties

**- 9.1 Information on basic physical and chemical properties**

**- General Information**

**- Physical state**

Liquid

**- Colour:**

Yellow

**- Smell:**

Characteristic

**- Odour threshold:**

Not determined.

**- Melting point/freezing point:**

Not determined

**- Boiling point or initial boiling point and boiling range**

Not determined

**- Flammability**

Not applicable.

**- Lower and upper explosion limit**

**- Lower:**

Not determined.

**- Upper:**

Not determined.

**- Flash point:**

Not determined

**- Decomposition temperature:**

Not determined.

**- pH at 20 °C**

10,2

**- pH-value:**

**- Viscosity:**

**- Kinematic viscosity**

Not determined.

**- dynamic:**

Not determined.

**- Solubility**

**- Water:**

Fully miscible

**- Partition coefficient n-octanol/water (log value)** Not determined.

**- Vapour pressure:**

Not determined.

**- Density and/or relative density**

**- Density at 20 °C**

1,16 g/cm<sup>3</sup>

**- Relative density**

Not determined.

**- Vapour density**

Not determined.

**- 9.2 Other information**

**- Appearance:**

**- Form:**

Fluid

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#### - Important information on protection of health and environment, and on safety.

- |                         |                                      |
|-------------------------|--------------------------------------|
| - Self-inflammability:  | Product is not selfigniting.         |
| - Explosive properties: | Product is not potentially explosive |
| - Evaporation rate      | Not determined.                      |

#### - Information with regard to physical hazard classes

- |                                                                             |      |
|-----------------------------------------------------------------------------|------|
| - Explosives                                                                | Void |
| - Flammable gases                                                           | Void |
| - Aerosols                                                                  | Void |
| - Oxidising gases                                                           | Void |
| - Gases under pressure                                                      | Void |
| - Flammable liquids                                                         | Void |
| - Flammable solids                                                          | Void |
| - Self-reactive substances and mixtures                                     | Void |
| - Pyrophoric liquids                                                        | Void |
| - Pyrophoric solids                                                         | Void |
| - Self-heating substances and mixtures                                      | Void |
| - Substances and mixtures, which emit flammable gases in contact with water | Void |
| - Oxidising liquids                                                         | Void |
| - Oxidising solids                                                          | Void |
| - Organic peroxides                                                         | Void |
| - Corrosive to metals                                                       | Void |
| - Desensitised explosives                                                   | Void |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
strong oxidising agents  
Acids
- **10.6 Hazardous decomposition products:**  
Formation of carbon monoxide and carbon dioxide in case of fire.  
Nitrogen oxides (NOx)

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### - LD/LC50 values that are relevant for classification:

##### 7320-34-5 tetrapotassium pyrophosphate

Oral	LD50	2440 mg/kg (rat, male) >2000 mg/kg (mouse)
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Dermal	LD50	>7940 mg/kg (rabbit)
<b>102-71-6 Triethanolamine</b>		
Oral	LD50	>5000 mg/kg /Literatur (rat) (OECD 401)
Dermal	LD50	>2000 mg/kg (rabbit) (OECD 402)
<b>141-43-5 2-aminoethanol</b>		
Oral	LD50	1089 mg/kg (rat)
Dermal	LD50	2504 mg/kg (rabbit)
Inhalative	LC 50 / 4 h	>1,48 mg/l (rat)
<b>111905-52-3 Alcohols , C9-11, butoxylated, ethoxylated</b>		
Oral	LD50	>2000-<5000 mg/kg (rat)
<b>61791-14-8 Amines, coco alkyl, ethoxylated</b>		
Oral	LD50	>500-2000 mg/kg (rat)
<b>68154-97-2 Alcohols, C10-12, ethoxylated propoxylated</b>		
Oral	LD50	>5000 mg/kg (rat) (OECD Prüfrichtlinie 401)
<b>95-14-7 benzotriazole</b>		
Oral	LD50	560 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
<b>Alkylalkoholethoxylat</b>		
Oral	LD50	>300-2000 mg/kg (rat)

**- Primary irritant effect:****- Skin corrosion/irritation**

Causes skin irritation.

**- Serious eye damage/irritation**

Causes serious eye damage.

**- Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**- Germ cell mutagenicity** Based on available data, the classification criteria are not met.**- Carcinogenicity** Based on available data, the classification criteria are not met.**- Reproductive toxicity** Based on available data, the classification criteria are not met.**- STOT-single exposure** Based on available data, the classification criteria are not met.**- STOT-repeated exposure** Based on available data, the classification criteria are not met.**- Aspiration hazard** Based on available data, the classification criteria are not met.**- Germ cell mutagenicity:** Is not known as germ cell mutagen.**- Carcinogenicity:** No evidence of this effect is reported.**- Reproductive toxicity:** Is not known to be toxic to reproduction.**- 11.2 Information on other hazards****- Endocrine disrupting properties**

95-14-7 benzotriazole

List II

List I: Substances identified as endocrine disruptors at EU level.

List II: Substances screened for endocrine disruption under EU legislation.

List III: Substances considered by the evaluating national authority to have endocrine disrupting properties.

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## \* SECTION 12: Ecological information

### - 12.1 Toxicity

#### - Aquatic toxicity:

##### **7320-34-5 tetrapotassium pyrophosphate**

LC 50 / 96 h	>100 mg/l ( <i>Oncorhynchus mykiss</i> )
LC 50 / 48 h	>100 mg/l ( <i>Daphnia magna</i> )
LC 0 / 48 h	>750 mg/l ( <i>Leuciscus idus</i> )
EC 50 / 48 h	>100 mg/l ( <i>Daphnia magna</i> )
EC 50 / 72 h	>100 mg/l ( <i>Desmodesmus subspicatus</i> )
EC 50 / 3 h	>1000 mg/l (bacteria)

##### **102-71-6 Triethanolamine**

LC 50 / 96 h	11800 mg/l ( <i>Pimephales promelas</i> )
EC 50 / 48 h	>100 mg/l /statisch ( <i>Ceriodaphnia dubia</i> ) (Literaturwert)
EC50 / 3h	>1000 mg/l (activated sludge (DEV - L2)) (OECD 209 (Activated Sludge, Resp. Inhibition Test))
EC 50 / 24 h	2038 mg/l ( <i>Daphnia magna</i> )
EC 50 / 72 h	512 mg/l ( <i>Scenedesmus subspicatus</i> )

##### **141-43-5 2-aminoethanol**

LC 50 / 96 h	150 mg/l ( <i>Oncorhynchus mykiss</i> )
	329 mg/l ( <i>Lepomis macrochirus</i> )
	349 mg/l ( <i>Cyprinus carpio</i> )
	170 mg/l ( <i>Carassius auratus</i> )
LC 50 / 48 h	224 mg/l ( <i>Leuciscus idus</i> )
EC 50 / 48 h	65 mg/l ( <i>Daphnia magna</i> )
EC 50 / 16 h	110 mg/l ( <i>Pseudomonas putida</i> ) ((DIN 38412 part 8))
EC 50 / 72 h	15 mg/l ( <i>Scenedesmus subspicatus</i> )
	2,5 mg/l ( <i>Selenastrum capricornutum</i> )
EC 50 / 3 h	>1000 mg/l /Belebtsch (activated sludge (DEV - L2)) (OECD 209 (Activated Sludge, Resp. Inhibition Test))

##### **111905-52-3 Alcohols , C9-11, butoxylated, ethoxylated**

LC 50 / 96 h	>1-<10 mg/l ( <i>Leuciscus idus</i> ) (DIN 38412 Teil 15, statisch)
EC 50 / 48 h	>1-<10 mg/l ( <i>Daphnia magna</i> ) (Analogieschluss)
EC 50 / 72 h	>10-<100 mg/l ( <i>Scenedesmus subspicatus</i> ) (OECD 201)
EC 50	>1-<10 mg/l (Algae) (Analogieschluss)
NOEC / 21 d	>0,1-1 mg/l ( <i>Daphnia magna</i> ) (OECD 202)
NOEC	>0,1-<10 mg/l (Algae) (Analogieschluss)
EC 10 / 72 h	>1 mg/l ( <i>Scenedesmus subspicatus</i> ) (OECD 201)

##### **61791-14-8 Amines, coco alkyl, ethoxylated**

LC 50 / 96 h	1-<10 mg/l ( <i>Leuciscus idus</i> )
EC 50 / 48 h	1-<100 mg/l ( <i>Daphnia magna</i> )

##### **68154-97-2 Alcohols, C10-12, ethoxylated propoxylated**

EC 50 / 48 h	>1-10 mg/l ( <i>Daphnia magna</i> ) (OECD- Prüfrichtlinie 202)
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<b>95-14-7 benzotriazole</b>	
LC 50 / 96 h	180 mg/l (Danio rerio) (OECD 203 (Acute toxicity - fish))
LC 0 / 96 h	100 mg/l (Brachydanio rerio)
EC 50 / 48 h	15,8 mg/l (Daphnia magna) (OECD 202)
EC 50 / 72 h	75 mg/l (Pseudokirchneriella subcapitata)
EC 10	0,97 mg/l (Daphnia magna) (OECD 211, 21d)
EC 10 / 72 h	1,18 mg/l (Desmodesmus subspicatus)
<b>Alkylalkoholethoxylat</b>	
LC 50 / 96 h	>10-100 mg/l (Pimephales promelas)
EC 50 / 48 h	>100 mg/l (Daphnia)

**- 12.2 Persistence and degradability**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

<b>102-71-6 Triethanolamine</b>	
DOC - Elimination	96 % (OECD 301 E)
Biodegradability	91 % (bacteria) (28 d, modif. Sturm-Test)
<b>141-43-5 2-aminoethanol</b>	
Biodegradability	90-100 % (OECD 301 F)
Biodegradability	>90 % (OECD 301 A (DOC Die-Away Test))
<b>111905-52-3 Alcohols , C9-11, butoxylated, ethoxylated</b>	
Biodegradability	>60 % /28d (OECD 301 B)
<b>61791-14-8 Amines, coco alkyl, ethoxylated</b>	
CO <sub>2</sub> - Entwicklung	>60 % (OECD 301 B) (OECD 301B)
<b>68154-97-2 Alcohols, C10-12, ethoxylated propoxylated</b>	
Biodegradability	>60 % (OECD 301 B)

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

**- 12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

**- 12.7 Other adverse effects**

**- Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):**

<b>102-71-6 Triethanolamine</b>	
EC 50	>1000 mg/l (activated sludge (method OECD 209))
<b>141-43-5 2-aminoethanol</b>	
EC 20	>1000 mg/l (OECD 209 / ISO 8192)
EC 50 / 17 h	110 mg/l (Pseudomonas putida)
<b>111905-52-3 Alcohols , C9-11, butoxylated, ethoxylated</b>	
EC 10	>1000 mg/l (activated sludge (DEV - L2))
<b>95-14-7 benzotriazole</b>	
EC 50	1060 mg/l (OECD 209 / ISO 8192)

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- **Additional ecological information:**- **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

### \* SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**- **Recommendation** Disposal in accordance with official regulations.- **Waste disposal key number:**

Since 1 January 1999, the waste code numbers have not only been product-related but essentially application-related. The waste code number valid for the application can be taken from the European Waste Catalogue.

- **Uncleaned packagings:** Disposal in accordance with official regulations.- **Recommendation:**

*Levelopment*: After optimal emptying, immediately return to the supplier tightly closed and without cleaning. Make sure that no foreign matter gets into the packaging!

Other containers: Empty completely and clean for reconditioning or reprocessing.

### SECTION 14: Transport information

- <b>14.1 UN number or ID number</b>	
- <b>ADR/RID, IMDG, IATA</b>	Void
- <b>14.2 UN proper shipping name</b>	
- <b>ADR/RID, IMDG, IATA</b>	Void
- <b>14.3 Transport hazard class(es)</b>	
- <b>ADR/RID, IMDG, IATA</b>	
- <b>Class</b>	Void
- <b>14.4 Packing group</b>	
- <b>ADR/RID, IMDG, IATA</b>	Void
- <b>14.5 Environmental hazards:</b>	Not applicable.
- <b>Marine pollutant:</b>	No
- <b>14.6 Special precautions for user</b>	Not applicable.
- <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
- <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
- <b>UN "Model Regulation":</b>	Void

### \* SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

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— EUE —

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**- Hazard pictograms**

GHS05

**- Signal word** Danger**- Hazard-determining components of labelling:**

2-aminoethanol

Amines, coco alkyl, ethoxylated

**- Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

**- Precautionary statements**

P264 Wash thoroughly after handling.

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

P302+P352 IF ON SKIN: Wash with plenty of water/-

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing.

**- Directive 2012/18/EU****- Named dangerous substances - ANNEX I** None of the ingredients is listed.**- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

None of the ingredients is listed.

**- REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**- REGULATION (EU) 2019/1148****- Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**- National regulations****- Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

**- VOC:** 2,4% volatile organic compounds (Council Directive 2010/75/EC).**- Other regulations, limitations and prohibitive regulations****- Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

**- 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

— EUE —

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### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

**- Application:**

Please refer to the technical data sheet for application instructions.

Only for industrial applications.

**- Registration-Number**

**- Relevant phrases**

Complete wording of hazard statements and risk phrases (H-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

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.

**- Training hints**

The national regulations for the training of employees in handling hazardous substances must be observed.

**- Department issuing data specification sheet:** See section 1.3: Responding area

**- Date of previous version:** 21.11.2024

**- Version number of previous version:** 115.60

**- Abbreviations and acronyms:**

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substance of Very High Concern

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**- \* Data compared to the previous version altered.**