

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 25.01.2023

Version number 115.56 (replaces version 115.55)

Revision: 25.01.2023

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

### - 1.1 Product identifier

- Trade name **Cleaner 12**

- UFI: 5D40-000U-E00U-K34K

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

No further relevant information available.

- **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

- **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

fatty alcohol alkoxylate

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.

(Contd. on page 2)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 25.01.2023

Version number 115.56 (replaces version 115.55)

Revision: 25.01.2023

Trade name Cleaner 12

(Contd. of page 1)

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with harmless additions

**- Dangerous components:**

	isononanoic acid and neutralisation products Acute Tox. 4, H302; Eye Irrit. 2, H319	≥2.5-<10%
CAS: 7320-34-5 EINECS: 230-785-7 Reg.nr.: 01-2119489369-18	tetrapotassium pyrophosphate Eye Irrit. 2, H319	≥2.5-<10%
CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 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 %	≥1-<2.5%
Polymer Reg.nr.: 02-2119552440-48	fatty alcohol alkoxyolate Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	≥1-<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: 146340-16-1 Polymer	fatty alcohol ethoxylate butyl ether Aquatic Acute 1, H400 (M=1); Skin Irrit. 2, H315; Aquatic Chronic 3, H412	≥0.25-≤1%

**- Regulation (EC) No 648/2004 on detergents / Labelling for contents**

phosphates	≥5 - <15%
non-ionic surfactants	<5%

- **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,

< 5 % non-ionic surfactants,

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

### SECTION 4: First aid measures

**- 4.1 Description of first aid measures**

- **General advice:** In case of unconsciousness bring patient into stable side position for transport.

- **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.

(Contd. on page 3)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 25.01.2023

Version number 115.56 (replaces version 115.55)

Revision: 25.01.2023

Trade name Cleaner 12

(Contd. of page 2)

**- 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***Endangered containers in the surrounding area should be cooled with a water-hose.***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.**If large amounts are released, the authorities must be informed.***- 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.***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 official regulations on storage and handling of water hazardous substances**Store in original containers or in PE-containers.***- Information about storage in one common storage facility:** *Not required.***- Further information about storage conditions:** *Protect from frost.*

(Contd. on page 4)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 25.01.2023

Version number 115.56 (replaces version 115.55)

Revision: 25.01.2023

Trade name Cleaner 12

(Contd. of page 3)

- **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:

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

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
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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)

##### 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)
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)

#### - PNECs

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

PNEC water	0.05 mg/l (freshwater) 0.005 mg/l (Seawater)
PNEC	50 mg/l (sewage plant)

##### 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)

- **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 item 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.  
Gases, fumes and aerosols should not be inhaled.

- **Breathing equipment:**

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

(Contd. on page 5)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 25.01.2023

Version number 115.56 (replaces version 115.55)

Revision: 25.01.2023

Trade name Cleaner 12

(Contd. of page 4)

- **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

- |   |  |
|---|--|
| - <b>Colour:</b>  | Yellow   |
| - <b>Smell:</b>   | Characteristic                                     |
| - <b>Melting point/freezing point:</b>                            | Not determined                                     |
| - <b>Boiling point or initial boiling point and boiling range</b> | >100 °C  |
| - <b>Flash point:</b>   | Product is non-flammable nor potentially explosive |
| - <b>pH at 20 °C</b>  | 10.2   |
| - <b>pH-value:</b>  |  |
| - <b>Viscosity:</b>   |  |
| - <b>Kinematic viscosity</b>                                      | Not determined.                                    |
| - <b>dynamic:</b>   | Not determined.                                    |
| - <b>Solubility</b>   |  |
| - <b>Water:</b>   | Fully miscible                                     |
| - <b>Vapour pressure:</b>   | Not determined.                                    |
| - <b>Density and/or relative density</b>                          |  |
| - <b>Density at 20 °C</b>   | 1.16 g/cm <sup>3</sup>                             |

#### - 9.2 Other information

- |  |                                      |
|--|--------------------------------------|
| - <b>Appearance:</b>   |                                      |
| - <b>Form:</b>   | Fluid                                |
| - <b>Important information on protection of health and environment, and on safety.</b> |                                      |
| - <b>Self-inflammability:</b>  | Product is not selfigniting.         |
| - <b>Explosive properties:</b>   | Product is not potentially explosive |

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

- |  |      |
|--|------|
| - <b>Explosives</b>                            | Void |
| - <b>Flammable gases</b>                       | Void |
| - <b>Aerosols</b>                              | Void |
| - <b>Oxidising gases</b>                       | Void |
| - <b>Gases under pressure</b>                  | Void |
| - <b>Flammable liquids</b>                     | Void |
| - <b>Flammable solids</b>                      | Void |
| - <b>Self-reactive substances and mixtures</b> | Void |
| - <b>Pyrophoric liquids</b>                    | Void |

(Contd. on page 6)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 25.01.2023

Version number 115.56 (replaces version 115.55)

Revision: 25.01.2023

Trade name Cleaner 12

(Contd. of page 5)

- <b>Pyrophoric solids</b>	Void
- <b>Self-heating substances and mixtures</b>	Void
- <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
- <b>Oxidising liquids</b>	Void
- <b>Oxidising solids</b>	Void
- <b>Organic peroxides</b>	Void
- <b>Corrosive to metals</b>	Void
- <b>Desensitised explosives</b>	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 oxidizing agents  
bases
- **10.6 Hazardous decomposition products:**  
Formation of carbon monoxide and carbon dioxide in case of fire.  
Nitrogen oxides (NO<sub>x</sub>)

### 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	2,440 mg/kg (rat, male) >2,000 mg/kg (mus)
Dermal	LD50	>7,940 mg/kg (rabbit)

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

Oral	LD50	1,515 mg/kg (rat) 1,750-2,050 mg/kg (rat)
Dermal	LD50	2,504 mg/kg (rbt)
Inhalative	LC 50 / 4 h	>1.3 mg/l (rat)

#### fatty alcohol alkoxylate

Oral	LD50	3,200 mg/kg (rat) >2,000-<5,000 mg/kg (rat) (vergleichbar mit OECD Richtlinie 401)
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#### 61791-14-8 Amines, coco alkyl, ethoxylated

Oral	LD50	>500-2,000 mg/kg (rat)
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#### 146340-16-1 fatty alcohol ethoxylate butyl ether

Oral	LD50	>2,000 mg/kg (rat) (OECD 401)
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(Contd. on page 7)



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 25.01.2023

Version number 115.56 (replaces version 115.55)

Revision: 25.01.2023

Trade name Cleaner 12

(Contd. of page 6)

- **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**

- <b>Endocrine disrupting properties</b>
None of the ingredients is listed.

## 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	>1,000 mg/l (bacteria)

##### **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	>1,000 mg/l /Belebt (activated sludge (DEV - L2)) (OECD 209 (Activated Sludge, Resp. Inhibition Test))

##### **fatty alcohol alkoxyate**

LC 50 / 96 h	1-10 mg/l ( <i>Leuciscus idus</i> ) (DIN 38412 Teil 15, statisch)
EC 50	>10-<100 mg/l (Algae) (read-across) >1-<10 mg/l ( <i>Daphnia</i> ) (read-across)
NOEC	0.1-1 mg/l ( <i>Daphnia magna</i> )

(Contd. on page 8)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 25.01.2023

Version number 115.56 (replaces version 115.55)

Revision: 25.01.2023

**Trade name Cleaner 12**

(Contd. of page 7)

	0.1-1 mg/l (Algae)
<b>61791-14-8 Amines, coco alkyl, ethoxylated</b>	
LC 50 / 96 h	1-<10 mg/l (Leuciscus idus)
EC 50 / 48 h	1-<100 mg/l (Daphnia magna)
<b>146340-16-1 fatty alcohol ethoxylate butyl ether</b>	
LC 50 / 48 h	>0.1-1 mg/l (Leuciscus idus)
LC 50	0.1-1 mg/l (fish)
EC 50 / 24 h	>0.1-1 mg/l (Daphnia magna) (OECD 202)
EC 50 / 72 h	>0.1-1 mg/l (Algae) (OECD 201)

**- 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>141-43-5 2-aminoethanol</b>	
Biodegradability	90-100 % (OECD 301 F)
Biodegradability	>90 % (OECD 301 A (DOC Die-Away Test))
<b>fatty alcohol alkoxyate</b>	
BiAS - Elimination	>90 % (OECD 301 E) (Wismuth-aktive Substanz (mod. OECD 301E))
CO <sub>2</sub> - Entwicklung	>60 % (OECD 301 B) (28 d, OECD 301 B, ISO 9439)
<b>61791-14-8 Amines, coco alkyl, ethoxylated</b>	
CO <sub>2</sub> - Entwicklung	>60 % (OECD 301 B) (OECD 301B)
<b>146340-16-1 fatty alcohol ethoxylate butyl ether</b>	
CSB - Abnahme	>70 % (OECD 301 D) (28 d)

- **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**

The product does not contain substances with endocrine disrupting properties.

**- 12.7 Other adverse effects**

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

<b>141-43-5 2-aminoethanol</b>	
EC 20	>1,000 mg/l (OECD 209 / ISO 8192)
EC 50 / 17 h	110 mg/l (Pseudomonas putida)
<b>fatty alcohol alkoxyate</b>	
EC 10	>1,000 mg/l (activated sludge (DEV - L2))
<b>146340-16-1 fatty alcohol ethoxylate butyl ether</b>	
EC 0	>10-100 mg/l (activated sludge (method OECD 209))

- **Additional ecological information:**

**- General notes:**

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

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

(Contd. on page 9)

— EUE —



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 25.01.2023

Version number 115.56 (replaces version 115.55)

Revision: 25.01.2023

Trade name Cleaner 12

(Contd. of page 8)

Do not allow product to reach ground water, water bodies or sewage system.

### SECTION 13: Disposal considerations

#### - 13.1 Waste treatment methods

##### - Recommendation

A used product should be recycled or used in other contexts, otherwise be handed over to an appropriate disposal site.

##### - Waste disposal key number:

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

##### - Uncleaned packagings: Disposal must be made according to official regulations.

##### - Recommendation:

Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.

Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

##### - Recommended cleaning agent: Water, if necessary with cleaning agent.

### SECTION 14: Transport information

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

(Contd. on page 10)

— EUE —

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 25.01.2023

Version number 115.56 (replaces version 115.55)

Revision: 25.01.2023

Trade name Cleaner 12

(Contd. of page 9)

**- Hazard pictograms**

GHS05

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

2-aminoethanol

fatty alcohol alkoxyolate

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.**- 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.**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.

(Contd. on page 11)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 25.01.2023

Version number 115.56 (replaces version 115.55)

Revision: 25.01.2023

Trade name Cleaner 12

(Contd. of page 10)

**- Application:***Directions for use: please refer to the Technical Information Sheet**Only for industrial applications.***- UFI market placements:****- Relevant phrases***Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3.**These phrases refer to the constituents. The labelling for this product is stated in section 2.***- Department issuing data specification sheet: see item 1: Informing department****- Date of previous version: 06.12.2022****- Version number of previous version: 115.55****- 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: 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 Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3***- \* Data compared to the previous version altered.**