

Safety data sheet

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

Printing date 16.10.2024

Version number 117.58 (replaces version 117.57)

Revision: 16.10.2024

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

- 1.1 Product identifier

- Trade name **Cleaner 10**
- UFI: 3940-G0AF-400A-WRJH

- 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

- 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

- | | | |
|-------------------|--|---|
| Acute Tox. 4 | | H332 Harmful if inhaled. |
| Skin Corr. 1B | | H314 Causes severe skin burns and eye damage. |
| Eye Dam. 1 | | H318 Causes serious eye damage. |
| STOT SE 3 | | H335 May cause respiratory irritation. |
| Aquatic Chronic 3 | | H412 Harmful to aquatic life with long lasting effects. |

- 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 GHS07

- Signal word *Danger*

- Hazard-determining components of labelling:

2-aminoethanol

- Hazard statements

- H332 Harmful if inhaled.*
- H314 Causes severe skin burns and eye damage.*
- H335 May cause respiratory irritation.*
- H412 Harmful to aquatic life with long lasting effects.*

- Precautionary statements

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

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information:

According to the current state of knowledge, no synthetic polymer microparticles > 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** Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

- **Description:** Mixture of the substances listed below with non-hazardous additions (solution in water).

- Dangerous components:

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	50-100%
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- 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.

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- General advice:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

If unconscious, position and transport in stable lateral position.

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.

- After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

- After eye contact

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.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **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:
Nitrogen oxides (NO_x)
carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:**
See section 8.
Wear 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**
Put on protective equipment and keep unprotected persons away.
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.
- **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**
Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.
- **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.
Nicht geeignetes Behältermaterial: Aluminium, Kupfer, Zink.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class** 8 B L (VCI - Konzept, 2007)
- **7.3 Specific end use(s)** No further relevant information available.

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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

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

- DNELs

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 ³ (Long-term, systemic effects)
		0,51 mg/m ³ (Long-term, local effects)
	DNEL (population)	0,18 mg/m ³ (Long-term, systemic effects) 0,28 mg/m ³ (Long-term, local effects)

- PNECs

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 section 7.

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

- **General protective and hygienic measures**

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Gases, fumes and aerosols should not be inhaled.

- **Breathing equipment:** Use breathing protection in case of insufficient ventilation.

- **Recommended filter device for short term use:**

Filter A

Combination filter A-P2

- **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.

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- 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.

- For the permanent contact gloves made of the following materials are suitable:

Chloroprenkautschuk mit 0,5 mm Schichtdicke, PVC mit 0,7 mm Schichtdicke oder Nitrilkautschuk mit 0,4 mm Schichtdicke, (empfohlen: Schutzindex 6, entsprechend über 480 Minuten Permeationszeit nach EN 374).

Achtung! die tägliche Gebrauchsdauer eines Chemikalienschutzhandschuhs kann wegen der besonderen Bedingungen am Arbeitsplatz (mechanische Belastung, Temperatur) deutlich kürzer als die nach EN 374 ermittelte Permeationszeit sein.

- Eye/face protection Tightly sealed safety glasses.**- Body protection:**

Standard protective work clothing. Chemical-resistant safety shoes or boots. If skin contact may occur, wear protective clothing impermeable to this substance.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties**- General Information****- Physical state**

Fluid

- Colour:

Colourless

- Smell:

Characteristic

- Odour threshold:

Not determined.

- Melting point/freezing point:

Not determined

- Boiling point or initial boiling point and boiling range

170 °C (141-43-5 2-aminoethanol)

- Flammability

Not applicable.

- Lower and upper explosion limit**- Lower:**

Not determined.

- Upper:

Not determined.

- Flash point:

Product is non-flammable nor potentially explosive

- Decomposition temperature:

Not determined.

- pH at 20 °C

11,2

- 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 at 20 °C:

0,3 hPa (141-43-5 2-aminoethanol)

- Density and/or relative density**- Density at 20 °C**1,03 g/cm³**- Relative density**

Not determined.

- Vapour density

Not determined.

- 9.2 Other information**- Appearance:****- Form:**

Fluid

- Important information on protection of health and environment, and on safety.**- Self-inflammability:**

Product is not selfigniting.

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- 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 acids
strong oxidising agents
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**
Harmful if inhaled.

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

141-43-5 2-aminoethanol

Oral	LD50	1089 mg/kg (rat)
Dermal	LD50	2504 mg/kg (rabbit)
Inhalative	LC 50 / 4 h	>1,48 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes severe skin burns and eye damage.

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- **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**
May cause respiratory irritation.
- **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.
- **11.2 Information on other hazards**

- Endocrine disrupting properties
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None of the ingredients is listed.

* SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

141-43-5 2-aminoethanol

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

- 12.2 Persistence and degradability

141-43-5 2-aminoethanol

Biodegradability	90-100 % (OECD 301 F)
Biodegradability	>90 % (OECD 301 A (DOC Die-Away Test))

- **Other information:** The product is readily biodegradable.
- **12.3 Bioaccumulative potential** No bioaccumulation
- **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):

141-43-5 2-aminoethanol

EC 20	>1000 mg/l (OECD 209 / ISO 8192)
EC 50 / 17 h	110 mg/l (Pseudomonas putida)

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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

The note below refers to the product left as it is and not to further processed products. When mixed with other products, other disposal routes may be required; if in doubt, consult the supplier of the product or the local authority.

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- 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:** Empty the container completely and send it cleaned for reconditioning or reprocessing.

SECTION 14: Transport information

- 14.1 UN number or ID number - ADR/RID, IMDG, IATA	UN2491
- 14.2 UN proper shipping name - ADR/RID - IMDG, IATA	2491 ETHANOLAMINE SOLUTION MIXTURE ETHANOLAMINE SOLUTION
- 14.3 Transport hazard class(es) - ADR/RID - Class - Label	8 (C7) Corrosive substances. 8
- IMDG, IATA - Class - Label	8 Corrosive substances. 8
- 14.4 Packing group - ADR/RID, IMDG, IATA	III
- 14.5 Environmental hazards: - Marine pollutant:	No
- 14.6 Special precautions for user - Kemler Number: - EMS Number: - Segregation groups - Stowage Category - Segregation Code	Warning: Corrosive substances. 80 F-A, S-B (SGG18) Alkalis A SG35 Stow "separated from" SGG1-acids
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.

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- Transport/Additional information:**- ADR/RID****- Limited quantities (LQ)**

5L

- Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

- IMDG**- Limited quantities (LQ)**

5L

- Excepted quantities (EQ)

Código E4

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

- UN "Model Regulation":

UN 2491 ETHANOLAMINE SOLUTION MIXTURE, 8, III

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.

- Hazard pictograms

GHS05 GHS07

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

2-aminoethanol

- Hazard statements

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- 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

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- 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.

- Other regulations, limitations and prohibitive regulations

- Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

- VOC (EU) 618,0 g/l

- 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.

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.

- 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.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

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

- Version number of previous version: 117.57

- 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

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*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**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3***- * Data compared to the previous version altered.**

EUE
