

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.01.2023

Version number 116.02

Revision: 18.01.2023

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

- 1.1 Product identifier

- Trade name **Cleaner 03**

- UFI: 4V30-X0VF-K00V-K1N6

- 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**

The product is not classified, according to the CLP regulation.

- 2.2 Label elements

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

- **Hazard pictograms** *Void*

- **Signal word** *Void*

- **Hazard statements** *Void*

- **Additional information:**

Safety data sheet available on request.

- 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 substances listed below with harmless additions (aqueous solution).*

- **Dangerous components:**

CAS: 10043-35-3

EINECS: 233-139-2

Index number: 005-007-00-2

Reg.nr.: 01-2119486683-25

boric acid

Repr. 1B, H360FD

Specific concentration limit: Repr. 1B; H360: C ≥ 5.5 %

≥2.5-<5.5%

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CAS: 20405-61-2 EINECS: 243-795-1	D-gluconic acid, compound with 2-aminoethanol (1:1) Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥2.5-<10%
CAS: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60	Dipropylene glycol monomethyl ether substance with a Community workplace exposure limit	≤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	≥0.25-≤1%

- SVHC

10043-35-3 | boric acid

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

Constituents according to EC-Regulation 648/2004:

< 5 % polycarboxylates,
preservatives (Benzotriazole)**SECTION 4: First aid measures****- 4.1 Description of first aid measures****- General advice:** Change contaminated clothing.**- After inhalation** Supply fresh air; consult doctor in case of symptoms.**- After skin contact**

Wash skin with water using soap if available. If persistent irritation occurs, obtain medical attention.

- After eye contact

Rinse opened eye for 15 minutes under running water.

In case of persistent symptoms consult doctor.

- After swallowing

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

- 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.**- For safety reasons unsuitable extinguishing agents** Water with a full water jet.**- 5.2 Special hazards arising from the substance or mixture** No further relevant information available.**- 5.3 Advice for firefighters****- Protective equipment:** Wear self-contained breathing apparatus.**- Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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

Wear protective equipment and keep unprotected persons away.

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- 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).

Contaminated material has to be disposed as waste (see 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

Prevent formation of aerosols.

Avoid contact with eyes or skin.

Ensure good ventilation/exhaustion at the workplace.

- Information about protection against explosions and fires:

Pay attention to general rules of internal fire prevention.

- 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: Store away from oxidising agents.**- Further information about storage conditions:** Keep container tightly sealed.**- 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:****34590-94-8 Dipropylene glycol monomethyl ether**

IOELV (EU)	Long-term value: 308 mg/m ³ , 50 ppm
	Skin

- DNELs**10043-35-3 boric acid**

Oral	DNEL (population)	0.98 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	392 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	196 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	8.3 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	4.15 mg/m ³ (Long-term, systemic effects)

34590-94-8 Dipropylene glycol monomethyl ether

Oral	DNEL (population)	36 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	283 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	121 mg/kg bw/day (Long-term, systemic effects)

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Inhalative	DNEL (worker)	308 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	37.2 mg/m ³ (Long-term, systemic 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 ³ (Long-term, systemic effects)
	DNEL (population)	2.1 mg/m ³ (Long-term, systemic effects)
- PNECs		
10043-35-3 boric acid		
PNEC water	1.35 mg/l (freshwater)	
	1.35 mg/l (Seawater)	
PNEC	10 mg/l (sewage plant)	
PNEC sediment	1.8 mg/kg (freshwater)	
	1.8 mg/kg (Seawater)	
PNEC soil	5.4 mg/kg (soil)	
34590-94-8 Dipropylene glycol monomethyl ether		
PNEC water	19 mg/l (freshwater)	
	1.9 mg/l (marine water)	
PNEC water	190 mg/l (intermittent releases)	
PNEC	4,168 mg/l (sewage plant)	
PNEC sediment	70.2 mg/kg (freshwater)	
	7.02 mg/kg (marine water)	
PNEC soil	2.74 mg/kg (soil)	
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 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.

Keep away from food, beverages and fodder.

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: In case of dizzying-dust breathing protection is required

- Recommended filter device for short term use: Combination filter AB-P2

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- Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- 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

Change gloves if notice sign of disenchantment.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye/face protection Safety glasses recommended during refilling.**- Body protection:** Standard protective working clothes

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties**- General Information****- Colour:**

Light yellow

- Smell:

Characteristic

- Odour threshold:

Not determined.

- Melting point/freezing point:

Not determined

- Boiling point or initial boiling point and boiling range

100 °C

- Flammability

Not applicable.

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

Not determined.

- Upper:

Not determined.

- Flash point:

93 °C

- Decomposition temperature:

Not determined.

- pH at 20 °C

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- 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:

23 hPa (7732-18-5 water, distilled, conductivity or of similar purity)

- Density and/or relative density**- Density at 20 °C**1.07 g/cm³**- 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 oxidizing 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** Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:

10043-35-3 boric acid

Oral	LD50	>2,060 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)

34590-94-8 Dipropylene glycol monomethyl ether

Oral	LD50	5,135 mg/kg (rat)
Dermal	LD50	9,500 mg/kg (rat)

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Inhalative	LC 50 / 4 h	55-60 mg/l (rat)
95-14-7 benzotriazole		
Oral	LD50	560 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
<ul style="list-style-type: none"> - Skin corrosion/irritation Based on available data, the classification criteria are not met. - Serious eye damage/irritation Based on available data, the classification criteria are not met. - 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. 		
- STOT-repeated exposure:		
34590-94-8 Dipropylene glycol monomethyl ether		
Oral	NOAEL subacute	1,000 mg/kg/28d (rat)
- 11.2 Information on other hazards		
- Endocrine disrupting properties		
95-14-7	benzotriazole	List II

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:	
10043-35-3 boric acid	
LC 50 / 96 h	456 mg/l (<i>Pimephales promelas</i>)
LC 50 / 72 h	1,020 mg/l (<i>Carassius auratus</i>)
EC 50 / 48 h	133-760 mg/l (<i>Daphnia magna</i>)
EC 50 / 72 h	229 mg/l (<i>Pseudokirchneriella subcapitata</i>)
34590-94-8 Dipropylene glycol monomethyl ether	
LC 50 / 96 h	>1,000 mg/l (fish)
	>10,000 mg/l (<i>Pimephales promelas</i>)
LC 50 / 48 h	1,919 mg/l (<i>Daphnia magna</i>)
EC 50 / 96 h	969 mg/l (<i>Selenastrum capricornutum</i>)
EC 50 / 72 h	>969 mg/l (<i>Pseudokirchneriella subcapitata</i>)
NOEC	≥0.5 mg/l /22 d (<i>Daphnia magna</i>)
NOEC / 72 h	969 mg/l (<i>Pseudokirchneriella subcapitata</i>)
95-14-7 benzotriazole	
LC 50 / 96 h	25 mg/l (<i>Lepomis macrochirus</i>)
LC 0 / 96 h	100 mg/l (<i>Brachydanio rerio</i>)
EC 50 / 48 h	91 mg/l (<i>Daphnia magna</i>)
EC 50 / 72 h	231 mg/l (<i>Scenedesmus subspicatus</i>)
EC 10	0.97 mg/l (<i>Daphnia magna</i>) (OECD 211, 21d)

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- 12.2 Persistence and degradability

34590-94-8 Dipropylene glycol monomethyl ether

DOC - Elimination	>70 % (OECD 301 E)
Biodegradability	91 % /28 d (ISO 14593)
	75 % /10d (OECD 301 F)

- 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):

34590-94-8 Dipropylene glycol monomethyl ether

EC 10	4,168 mg/l /18 h (Pseudomonas putida)
EC 20	>1,000 mg/l (activated sludge (method OECD 209))

95-14-7 benzotriazole

EC 50	1,060 mg/l (OECD 209 / ISO 8192)
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- Additional ecological information:

- General notes:

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

Water hazard class 1 (Self-assessment): slightly hazardous for water.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated under adherence to official regulations.

- 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.

SECTION 14: Transport information

- 14.1 UN number or ID number

- ADR/RID/ADN, IMDG, IATA

Void

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- 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: - Marine pollutant:	Not applicable. 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 Void
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.

- 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: None.

- Other regulations, limitations and prohibitive regulations

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

10043-35-3 | boric acid

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

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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.

- **Application:** Directions for use: please refer to the Technical Information Sheet
- **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:** 13.01.2022
- **Abbreviations and acronyms:**
 NOAEL: No Observed Adverse Effect Level
 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 Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Repr. 1B: Reproductive toxicity – Category 1B
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- * **Data compared to the previous version altered.**

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