

## Safety data sheet

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

Printing date 22.10.2020

Version number 114

Revision: 14.05.2020

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

#### - 1.1 Product identifier

- Trade name **Perkute Cleaner 03**

- Article number: 1002304522002

#### - 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:

National Poisons Information Service (NPIS) - Emergency call (healthcare professionals): (+44) 844 892 0111 - 0344 892 0111

### 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.

### 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 Reg.nr.: 01-2119486683-25	boric acid Repr. 1B, H360FD	≥2.5-<5.5%
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%

##### - SVHC

10043-35-3 boric acid

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- **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,

#### 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.
- **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.

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### 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

- **Additional information about design of technical systems:** No further data; see item 7.

#### - 8.1 Control parameters

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

##### **34590-94-8 Dipropylene glycol monomethyl ether**

WEL Long-term value: 308 mg/m<sup>3</sup>, 50 ppm

Sk

#### - 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<sup>3</sup> (Long-term, systemic effects)DNEL (population) 4.15 mg/m<sup>3</sup> (Long-term, systemic effects)

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

Oral DNEL (population) 13 mg/kg bw/day (Long-term, systemic effects)

Dermal DNEL (worker) 6.3 mg/kg bw/day (Long-term, systemic effects)

DNEL (population) 3.1 mg/kg bw/day (Long-term, systemic effects)

Inhalative DNEL (worker) 5 mg/m<sup>3</sup> (Long-term - systemic + local effects)DNEL (population) 1.25 mg/m<sup>3</sup> (Long-term - systemic + local 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)

Inhalative DNEL (worker) 308 mg/m<sup>3</sup> (Long-term, systemic effects)DNEL (population) 37.2 mg/m<sup>3</sup> (Long-term, systemic effects)

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<b>- PNECs</b>	
<b>10043-35-3 boric acid</b>	
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)
<b>102-71-6 Triethanolamine</b>	
PNEC water	0.32 mg/l (freshwater) 0.032 mg/l (Seawater)
PNEC	10 mg/l (sewage plant)
PNEC	0.151 mg/kg dw (soil)
PNEC sediment	1.7 mg/kg dw (freshwater) 0.17 mg/kg dw (Seawater)
<b>34590-94-8 Dipropylene glycol monomethyl ether</b>	
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)

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

#### - 8.2 Exposure controls

##### - 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

##### - Protection of hands:

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.

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- **Eye 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

##### - Appearance:

Form:	Fluid
Colour:	Light yellow
Smell:	Characteristic
Odour threshold:	Not determined.

- |  |                |
|--|----------------|
| - pH-value at 20 °C:                       | ~ 9.4          |
| - Melting point/freezing point:            | Not determined |
| - Initial boiling point and boiling range: | ~ 100 °C       |

- **Flash point:** Product is non-flammable nor potentially explosive

- **Inflammability (solid, gaseous)** Not applicable.

- **Decomposition temperature:** Not determined.

- **Self-inflammability:** Product is not selfigniting.

- **Explosive properties:** Product is not potentially explosive

##### - Critical values for explosion:

Lower:	Not determined.
Upper:	Not determined.

- **Vapour pressure:** Not determined.

- |                    |                          |
|--------------------|--------------------------|
| - Density at 20 °C | ~ 1.07 g/cm <sup>3</sup> |
| - Relative density | Not determined.          |
| - Vapour density   | Not determined.          |
| - Evaporation rate | Not determined.          |

- **Solubility in / Miscibility with Water:** Fully miscible

- **Partition coefficient: n-octanol/water:** Not determined.

##### - Viscosity:

dynamic:	Not determined.
kinematic:	Not determined.

- **9.2 Other information** No further relevant information available.

### 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

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

## SECTION 11: Toxicological information

### - 11.1 Information on toxicological effects

- **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)

##### 102-71-6 Triethanolamine

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

##### 34590-94-8 Dipropylene glycol monomethyl ether

Oral	LD50	5,135 mg/kg (rat)
Dermal	LD50	9,500 mg/kg (rat)
Inhalative	LC 50 / 4 h	55-60 mg/l (rat)

#### - Primary irritant effect:

- **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.

#### - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- **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.

## 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> )

##### 102-71-6 Triethanolamine

LC 50 / 96 h	11,800 mg/l ( <i>Pimephales promelas</i> )
EC 50 / 24 h	2,038 mg/l ( <i>Daphnia magna</i> )
EC 50 / 72 h	512 mg/l ( <i>Scenedesmus subspicatus</i> )

##### 34590-94-8 Dipropylene glycol monomethyl ether

LC 50 / 96 h	>10,000 mg/l ( <i>Pimephales promelas</i> )
LC 50 / 48 h	1,919 mg/l ( <i>Daphnia magna</i> )

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EC 50 / 96 h	969 mg/l (Senastrum capricornutum)
EC 50 / 72 h	>969 mg/l (Pseudokirchneriella subcapitata)

**- 12.2 Persistence and degradability****102-71-6 Triethanolamine**

DOC - Elimination	96 % (OECD 301 E)
Biodegradability	91 % (bacteria) (28 d, modif. Sturm-Test)

**34590-94-8 Dipropylene glycol monomethyl ether**

DOC - Elimination	>70 % (OECD 301 E)
Biodegradability	75 % (OECD 301 F)

**- 12.3 Bioaccumulative potential** No further relevant information available.**- 12.4 Mobility in soil** No further relevant information available.**- Ecotoxic effects:****- Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):****102-71-6 Triethanolamine**

EC 50	>1,000 mg/l (activated sludge (method OECD 209))
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**34590-94-8 Dipropylene glycol monomethyl ether**

EC 20	>1,000 mg/l (activated sludge (method OECD 209))
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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.

**- 12.5 Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**- 12.6 Other adverse effects** No further relevant information available.

## 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.

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#### SECTION 14: Transport information

- 14.1 UN-Number - ADR, IMDG, IATA	Void
- 14.2 UN proper shipping name - ADR, IMDG, IATA	Void
- 14.3 Transport hazard class(es) - ADR, IMDG, IATA - Class	Void
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards: - Marine pollutant:	Not applicable. No
- 14.6 Special precautions for user	Not applicable.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	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
- National regulations
- Information about limitation of use:  
Employment restrictions concerning young persons must be observed.  
International Inventories  
All of the components in the product are on the following Inventory lists:  
TSCA (United States), Europe (EINECS / ELINCS).
- 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.

#### 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

#### - 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.

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*H315 Causes skin irritation.**H319 Causes serious eye irritation.**H360FD May damage fertility. May damage the unborn child.***- Department issuing data specification sheet:** see item 1: Informing department**- Abbreviations and acronyms:***RPE: Respiratory Protective Equipment**RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)**ADR: Accord européen sur le transport 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**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Repr. 1B: Reproductive toxicity – Category 1B***- \* Data compared to the previous version altered.**