

## Safety data sheet

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

Printing date 08.01.2019

Version number 108

Revision: 08.01.2019

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

### - 1.1 Product identifier

- Trade name **Cleaner 02**

### - 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** Alkaline cleaner/ detergent

### - 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**

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

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:**

sodium hydroxide

#### - **Hazard statements**

H314 Causes severe skin burns and eye damage.

#### - **Precautionary statements**

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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.

P310 Immediately call a POISON CENTER/doctor/-

### - 2.3 Other hazards

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

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

#### - 3.2 Mixtures

- **Description:** Mixture of the following components

#### - **Dangerous components:**

CAS: 1310-73-2	sodium hydroxide	2.5-10%
EINECS: 215-185-5	Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	
Reg.nr.: 01-2119457892-27		

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

#### - **Composition/Ingredients**

Constituents according to EC-Regulation 648/2004:

< 5 % phosphates,

< 5 % phosphonates

further constituents: alkalis, silicates, salts of organic acids.

### SECTION 4: First aid measures

#### - 4.1 Description of first aid measures

##### - **General advice:**

Instantly remove any clothing soiled by the product.

In case of unconsciousness bring patient into stable side position for transport.

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

##### - **After skin contact**

Remove contaminated clothing immediately. Wash affected areas with plenty of water und soap. If irritation continues, contact a doctor.

##### - **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

Burning effect and pain to eyes, skin and mucous membranes. After swallowing serious irritation to oral cavity and throat as well as danger of perforation of the gullet.

#### - 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

Depending on fire conditions, traces of harmful gases cannot be excluded.

#### - 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.

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### SECTION 6: Accidental release measures

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

Wear 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.

Dilute with much 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).

Use neutralising agent.

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

Avoid contact with eyes and skin.

#### - 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:

Do not store together with acids.

##### - Storage class

8 B L (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:

###### 1310-73-2 sodium hydroxide

WEL Short-term value: 2 mg/m<sup>3</sup>

##### - DNELs

###### 1310-73-2 sodium hydroxide

Oral	DNEL (worker)	2.3 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	<2 % wt. (Acute, local effects)
Inhalative	DNEL (worker)	2.1 mg/m <sup>3</sup> (Long-term, systemic effects)
		1 mg/m <sup>3</sup> (Long-term - local effects) (most sensitive endpoint: Irritation)
	DNEL (population)	2.5 mg/m <sup>3</sup> (Acute, local effects)
		5.7 mg/m <sup>3</sup> (Long-term, systemic effects)

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**- PNECs****1310-73-2 sodium hydroxide**

PNEC water	6.4 mg/l (freshwater)
	3.1 mg/l (intermittent releases)
PNEC water	0.64 mg/l (Seawater)
PNEC sediment	2.3 mg/kg dw (Seawater)
PNEC soil	23 mg/kg dw (freshwater)
	0.853 mg/kg dw (soil)
PNEC STP	51 mg/l (-)

**- 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**

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.

**- Protection of hands:**

Protective gloves.

Alkaline resistant gloves

**- 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 protection:** Tightly sealed safety glasses.**- Body protection:**

Standard protective working clothes, chemical resistant safety-shoes or wellingtons. If skin contact is possible, wear impenetrable protective clothing.

## 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

**- pH-value (10 g/l) at 20 °C:** ~ 11.8

**- Change in condition**

**Melting point/freezing point:** Not determined

**Initial boiling point and boiling range:** > 100 °C

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

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- <b>Self-inflammability:</b>	Product is not selfigniting.
- <b>Explosive properties:</b>	Product is not potentially explosive
- <b>Density at 20 °C</b>	~1.34 g/cm <sup>3</sup>
- <b>Solubility in / Miscibility with Water:</b>	Fully miscible
- <b>9.2 Other information</b>	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 and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
No hazardous reactions known if stored and applied as directed.  
Reacts with light alloys to form hydrogen
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
Strong acids  
light metal salts
- **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.
- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **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

- <b>Aquatic toxicity:</b>	
<b>1310-73-2 sodium hydroxide</b>	
LC 50 / 96 h	33-196 mg/l (fish)
EC 50 / 48 h	40.4 mg/l (shellfish)

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- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** 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.
- **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

- <b>14.1 UN-Number</b>	
- <b>ADR, IMDG, IATA</b>	3266
- <b>14.2 UN proper shipping name</b>	
- <b>ADR</b>	3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)
- <b>IMDG, IATA</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)
- <b>14.3 Transport hazard class(es)</b>	
- <b>ADR</b>	
- <b>Class</b>	8 (C5) Corrosive substances.
- <b>Label</b>	8
- <b>IMDG, IATA</b>	
- <b>Class</b>	8 Corrosive substances.
- <b>Label</b>	8
- <b>14.4 Packing group</b>	
- <b>ADR, IMDG, IATA</b>	II

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<b>- 14.5 Environmental hazards:</b>	
- Marine pollutant:	No
<b>- 14.6 Special precautions for user</b>	
- Kemler Number:	Warning: Corrosive substances.
- EMS Number:	80
- Segregation groups	F-A,S-B
	Alkalis
<b>- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	
	Not applicable.
<b>- Transport/Additional information:</b>	
<b>- ADR</b>	
- Limited quantities (LQ)	1L
- Transport category	3
- Tunnel restriction code	E
- UN "Model Regulation":	UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, II

## 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

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
sodium hydroxide
- **Hazard statements**  
H314 Causes severe skin burns and eye damage.
- **Precautionary statements**  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
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.  
P310 Immediately call a POISON CENTER/doctor/-
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations**
- **Information about limitation of use:**  
Employment restrictions concerning young persons must be observed.
- **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

- **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.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

- **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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

vPvB: very Persistent and very Bioaccumulative

Met. Corr. 1: Corrosive to metals – Category 1

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

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

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