

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.01.2021

Version number 113

Revision: 07.01.2021

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

- 1.1 Product identifier

- Trade name **Cleaner 05**

- UFI: GK20-C0HH-000E-PWW7

- 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 **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**

Met. Corr. 1 H290 May be corrosive to metals.

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

tetrasodium pyrophosphate

- **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

- **Precautionary statements**

P260 Do not breathe dust.

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

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- **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 following components

- **Dangerous components:**

CAS: 1310-73-2 EINECS: 215-185-5 Reg.nr.: 01-2119457892-27	sodium hydroxide Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	50-100%
CAS: 7722-88-5 EINECS: 231-767-1 Reg.nr.: 01-2119489794-17	tetrasodium pyrophosphate Eye Dam. 1, H318; Acute Tox. 4, H302	2.5-10%

- **Composition/Ingredients**

Constituents according to EC-Regulation 648/2004:
< 5 % phosphates,
further constituents: alkalis, salts of organic acids, auxiliary agents.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General advice:** Instantly remove any clothing soiled by the product.
- **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**
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**
Product is non-flammable. Use fire fighting measure that suit the surroundings.
- **For safety reasons unsuitable extinguishing agents** Water.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**
See section 8.

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Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep off unprotected persons

Ensure adequate ventilation

Avoid causing dust.

- 6.2 Environmental precautions:

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

Damp down dust with water spray jet.

If large amounts are released, the authorities must be informed.

- 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Pick up mechanically and rinse the remainder with water. Avoid dust development. Place in suitable container and send to be recycled or disposed of (taking item 13 into account).

- 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 dust.

When diluting, always stir the product into standing water.

- Information about protection against explosions and fires: No special measures required.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage

- Requirements to be met by storerooms and containers:

Observe official regulations on storage and handling of water hazardous substances

Do not use light alloy containers.

Product contains metal corrosive ingredients.

- Information about storage in one common storage facility: Do not store together with acids.

- Further information about storage conditions:

Keep container tightly sealed.

Store under dry conditions.

- 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:

1310-73-2 sodium hydroxide

WEL Short-term value: 2 mg/m³

7722-88-5 tetrasodium pyrophosphate

WEL Long-term value: 5 mg/m³

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- 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 ³ (Long-term, systemic effects)
		1 mg/m ³ (Long-term - local effects) (most sensitive endpoint: Irritation)
	DNEL (population)	2.5 mg/m ³ (Acute, local effects)
		5.7 mg/m ³ (Long-term, systemic effects)
- 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.

Do not inhale dust. Prevent formation of dust.

- **Breathing equipment:** Breathing protection to be used where a build-up of dust occurs.

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

Filter P2

Take care of limitations and rules for the use of breathing protection equipment (DGUV Regel 112-190).

- **Protection of hands:** Protective gloves.

- Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.5 mm

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

Note information regarding permeation rate, penetration times and the degradation supplied by the manufacturer of gloves just as workplace-specific conditions.

Change gloves if notice sign of disenchantment.

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

- **Body protection:** Protective work clothing.

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SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Powder

Colour: White

- Smell: Odourless

- pH-value (10 g/l) at 20 °C: ~ 13

- Initial boiling point and boiling range: Not determined

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

- Ignition temperature: 400 °C

- Self-inflammability: Product is not selfigniting.

- Explosive properties: Product is not potentially explosive

- Density at 20 °C ~ 1 g/cm³

- Solubility in / Miscibility with
Water: Fully miscible

- Viscosity:
dynamic: Not applicable.
kinematic: Not applicable.

- 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 and stored according to specifications.

- 10.3 Possibility of hazardous reactions

Corrosive action on metals

Violent reaction with water at high temperatures

Diluting or dissolving in water always causes rapid heating

Reacts with light alloys in the presence of moisture to form hydrogen

Strong exothermic reaction with acids

- 10.4 Conditions to avoid No further relevant information available.

- 10.5 Incompatible materials: Light metals, acids, ammonium compounds.

- 10.6 Hazardous decomposition products:

Reaction in contact with metal forming hydrogen.

Reaction with ammonium compounds forming ammonia.

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.

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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.
- **Additional toxicological information:**
- **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:

1310-73-2 sodium hydroxide

LC 50 / 96 h	33-196 mg/l (fish)
EC 50 / 48 h	40.4 mg/l (shellfish)

- **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.
- **Ecotoxicological effects:**
- **Remark:** Harmful effect on fish, plankton and other waterorganism by pH shift possible.
- **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. 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:

- 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.

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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

<ul style="list-style-type: none"> - 14.1 UN-Number - ADR, IMDG, IATA 	UN3262
<ul style="list-style-type: none"> - 14.2 UN proper shipping name - ADR - IMDG, IATA 	3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE) CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)
<ul style="list-style-type: none"> - 14.3 Transport hazard class(es) - ADR - Class - Label 	8 (C6) Corrosive substances. Corrosive substances. 8
<ul style="list-style-type: none"> - IMDG, IATA - Class - Label 	8 Corrosive substances. 8
<ul style="list-style-type: none"> - 14.4 Packing group - ADR, IMDG, IATA 	II
<ul style="list-style-type: none"> - 14.6 Special precautions for user - Kemler Number: - EMS Number: - Segregation groups - Stowage Category - Segregation Code 	Warning: Corrosive substances. 80 F-A,S-B Alkalis B SG35 Stow "separated from" SGG1-acids
<ul style="list-style-type: none"> - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> - Transport/Additional information: 	
<ul style="list-style-type: none"> - ADR - Limited quantities (LQ) - Excepted quantities (EQ) - Transport category - Tunnel restriction code 	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g 2 E
<ul style="list-style-type: none"> - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) 	1 kg Código E4 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 g

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- UN "Model Regulation":	UN 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, II
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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
tetrasodium pyrophosphate
- **Hazard statements**
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
- **Precautionary statements**
P260 Do not breathe dust.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.
- **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.

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.

- **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.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
- **Department issuing data specification sheet:** see item 1: Informing department

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- Abbreviations and acronyms:*LEV: Local Exhaust Ventilation**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)**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**Acute Tox. 4: Acute toxicity - oral – Category 4**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.**

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