

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 114.01

Revision: 23.01.2023

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

- 1.1 Product identifier

- Trade name **Cleaner 05**

- UFI: 4U50-K0RK-N007-TW1P

- 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:

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

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.

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.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 114.01

Revision: 23.01.2023

Trade name **Cleaner 05**

(Contd. of page 1)

- **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 Index number: 011-002-00-6 Reg.nr.: 01-2119457892-27	sodium hydroxide Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318 Specific concentration limits: Skin Corr. 1A; H314: $C \geq 5\%$ Skin Corr. 1B; H314: $2\% \leq C < 5\%$ Skin Irrit. 2; H315: $0.5\% \leq C < 2\%$ Eye Irrit. 2; H319: $0.5\% \leq C < 2\%$	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	$\geq 3 - \leq 10\%$

- Regulation (EC) No 648/2004 on detergents / Labelling for contents

phosphates	<5%
------------	-----

- Composition/Ingredients

Constituents according to EC-Regulation 648/2004:
< 5 % phosphates,
weitere Inhaltsstoffe: Ätzalkalien, Salze organischer Säuren, Hilfsstoffe.

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 and pain of the eyes, skin and mucous membranes. After swallowing, strong irritant effect on the oral cavity and pharynx as well as danger of perforation of the oesophagus.
- **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.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 114.01

Revision: 23.01.2023

Trade name Cleaner 05

(Contd. of page 2)

- **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.
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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 114.01

Revision: 23.01.2023

Trade name Cleaner 05

(Contd. of page 3)

- DNELs		
1310-73-2 sodium hydroxide		
Inhalative	DNEL (worker)	1 mg/m ³ (Long-term - local effects) (most sensitive endpoint: Irritation)
	DNEL (population)	1 mg/m ³ (Long-term - local effects)
7722-88-5 tetrasodium pyrophosphate		
Inhalative	DNEL (worker)	17.63 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	4.35 mg/m ³ (Long-term, systemic effects)
- PNECs		
7722-88-5 tetrasodium pyrophosphate		
PNEC water	0.05 mg/l (freshwater)	
	0.005 mg/l (Seawater)	
	0.5 mg/l (intermittent releases)	
PNEC STP	50 mg/l (sewage plant)	

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

- 8.2 Exposure controls

- 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.

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

- Hand protection Protective gloves (EN 374).

- 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/face protection Tightly sealed safety glasses.

- Body protection: Protective work clothing.

* SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Colour:

White

- Smell:

Characteristic

- Melting point/freezing point:

Not determined

- Boiling point or initial boiling point and boiling range

Not determined

- Flash point:

Product is non-flammable nor potentially explosive

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 114.01

Revision: 23.01.2023

Trade name Cleaner 05

(Contd. of page 4)

- Ignition temperature:	400 °C
- pH at 20 °C	13
- pH-value:	
- Viscosity:	
- Kinematic viscosity	Not applicable.
- dynamic:	Not applicable.
- Solubility	
- Water:	Fully miscible
- Vapour pressure at 800 °C:	3.5 hPa (1310-73-2 sodium hydroxide)
- Density and/or relative density	
- Density	Not determined
- Particle characteristics	See item 3.
- 9.2 Other information	
- Appearance:	
- Form:	Powder
- Important information on protection of health and environment, and on safety.	
- Self-inflammability:	Product is not selfigniting.
- Explosive properties:	Product is not potentially explosive
- 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	May be corrosive to metals.
- 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 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

(Contd. on page 6)

EUE

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 114.01

Revision: 23.01.2023

Trade name Cleaner 05

(Contd. of page 5)

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 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:**

7722-88-5 tetrasodium pyrophosphate

Oral	LD50	>300-<2,000 mg/kg (rat) (OECD 420)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

- **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.

- **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.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

1310-73-2 sodium hydroxide

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

7722-88-5 tetrasodium pyrophosphate

LC 50 / 96 h	>100 mg/l (Oncorhynchus mykiss) (OECD 203)
LC 0 / 48 h	>500 mg/l (Leuciscus idus)
EC 50 / 48 h	>100 mg/l (Daphnia magna) (OECD 202)
EC 50 / 24 h	916 mg/l (Daphnia magna) (OECD 202)
EC 50 / 72 h	>100 mg/l (Desmodesmus subspicatus) (OECD 201)
NOEC / 72 h	>100 mg/l (Desmodesmus subspicatus)

- **12.2 Persistence and degradability** There is no information on the product available.

- **12.3 Bioaccumulative potential** No further relevant information available.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 114.01

Revision: 23.01.2023

Trade name Cleaner 05

(Contd. of page 6)

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

- **Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):**

7722-88-5 tetrasodium pyrophosphate

EC 50 >1,000 mg/l (activated sludge (method OECD 209))

- **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.

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.

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

- **14.1 UN number or ID number**

- **ADR/RID/ADN, IMDG, IATA**

UN3262

- **14.2 UN proper shipping name**

- **ADR/RID/ADN**

3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)

- **IMDG, IATA**

CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)

(Contd. on page 8)

EUE

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 114.01

Revision: 23.01.2023

Trade name Cleaner 05

(Contd. of page 7)

- 14.3 Transport hazard class(es)	
- ADR/RID/ADN	
- Class	8 (C6) Corrosive substances. Corrosive substances.
- Label	8
- IMDG, IATA	
- Class	8 Corrosive substances.
- Label	8
- 14.4 Packing group	
- ADR/RID/ADN, IMDG, IATA	II
- 14.6 Special precautions for user	
- Kemler Number:	Warning: Corrosive substances. 80
- EMS Number:	F-A, S-B
- Segregation groups	Alkalis
- Stowage Category	B
- Segregation Code	SG35 Stow "separated from" SGG1-acids
- 14.7 Maritime transport in bulk according to IMO instruments	
	Not applicable.
- Transport/Additional information:	
- ADR/RID/ADN	
- Limited quantities (LQ)	1 kg
- Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
- IMDG	
- Limited quantities (LQ)	1 kg
- Excepted quantities (EQ)	Código E4 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
- UN "Model Regulation":	UN 3262 CORROSIVE SOLID, 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

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 114.01

Revision: 23.01.2023

Trade name Cleaner 05

(Contd. of page 8)

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.

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.

- 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.

- Other regulations, limitations and prohibitive regulations**- Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

- 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.

- Department issuing data specification sheet: see item 1: Informing department**- Date of previous version:** 23.01.2023**- Abbreviations and acronyms:**

LEV: Local Exhaust Ventilation

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

(Contd. on page 10)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 114.01

Revision: 23.01.2023

Trade name Cleaner 05

(Contd. of page 9)

*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)**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: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Met. Corr. 1: Corrosive to metals – Category 1**Acute Tox. 4: Acute toxicity – 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.**

EUE
