

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.01.2020

Version number 112

Revision: 06.01.2020

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

- 1.1 Product identifier

- Trade name **Cleaner 04**

- 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**

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

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

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 3 H335 May cause respiratory irritation.

- 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 GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**

disodium silicate pentahydrate

fatty alcohol alkoxylate

- **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

- **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

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P406 Store in a corrosion resistant container / container with a resistant inner liner.

- **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

- **Dangerous components:**

CAS: 497-19-8 EINECS: 207-838-8 Reg.nr.: 01-2119485498-19	sodium carbonate Eye Irrit. 2, H319	25-50%
CAS: 10213-79-3 EINECS: 229-912-9 Reg.nr.: 01-2119449811-37	disodium silicate pentahydrate Met. Corr. 1, H290; Skin Corr. 1B, H314; STOT SE 3, H335	25-50%
CAS: 10101-89-0 EINECS: 231-509-8 Reg.nr.: 01-2119489800-32	trisodium phosphate 12 hydrate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-10%
Polymer Reg.nr.: 02-2119552440-48	fatty alcohol alkoxyate Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	<2.5%

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

- **Composition/Ingredients**

Constituents according to EC-Regulation 648/2004:

- 15 - 30 % phosphates,
- < 5 % non-ionic surfactants,
- further constituents: silicates and carbonates.

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** Drink copious amounts of water and provide fresh air. Instantly call for doctor.
- **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.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

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- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Endangered containers in the surrounding area should be cooled with a water-hose.

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.
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.
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.
Avoid contact with eyes and skin.
- **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 container if possible.
- **Information about storage in one common storage facility:** Do not store together with acids.
- **Further information about storage conditions:** Protect from humidity and keep away from water.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**
In case of dust development, suction is needed.
- **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.

- DNELs

497-19-8 sodium carbonate

Inhalative	DNEL (worker)	10 mg/m ³ (Long-term - local effects)
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	DNEL (population)	10 mg/m ³ (Acute, local effects)
10213-79-3 disodium silicate pentahydrate		
Oral	DNEL (population)	0.74 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	1.49 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	0.74 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	6.22 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	1.55 mg/m ³ (Long-term, systemic effects)

- PNECs**10213-79-3 disodium silicate pentahydrate**

PNEC water	7.5 mg/l (freshwater)
	1 mg/l (Seawater)
	7.5 mg/l (intermittent releases)
PNEC STP	1,000 mg/l (sewage plant)

- 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

- Protection of hands: Protective 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

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

- 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: Solid.

Colour: White

- Smell: Odourless

- pH-value (10 g/l) at 20 °C: 11 - 12

- Melting point/freezing point: Not determined

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- Initial boiling point and boiling range:	Not determined
- Flash point:	Product is non-flammable nor potentially explosive
- Self-inflammability:	Product is not selfigniting.
- Explosive properties:	Product is not potentially explosive
- Density	Not determined
- Settled apparent density at 20 °C	~ 850 kg/m ³
- Solubility in / Miscibility with Water:	Soluble
- 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.
Loss of constitutional water on heating
- **10.3 Possibility of hazardous reactions** Exothermic reactions with acids.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong acids
- **10.6 Hazardous decomposition products:** Reacts with acids forming carbon dioxide.

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:**

497-19-8 sodium carbonate

Oral	LD50	2,800 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (16 CFR 1500.40)
		>2,000 mg/kg (rabbit)
Inhalative	LC 50 / 2 h	2.3 mg/l (rat)

10213-79-3 disodium silicate pentahydrate

Dermal	LD50	>5,000 mg/kg (rat)
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10101-89-0 trisodium phosphate 12 hydrate

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

fatty alcohol alkoxyolate

Oral	LD50	3,200 mg/kg (rat)
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- **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.

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- **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**
May cause respiratory irritation.
- **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:

497-19-8 sodium carbonate

LC 50 / 96 h | 300 mg/l (*Lepomis macrochirus*)EC 50 / 48 h | 200-227 mg/l (*Ceriodaphnia dubia*)

10213-79-3 disodium silicate pentahydrate

LC 50 / 96 h | 210 mg/l (*Brachydanio rerio*)EC 50 / 48 h | 1,700 mg/l (*Daphnia magna*) (analog)EC 50 / 72 h | >345 mg/l (*Desmodesmus subspicatus*) (DIN 38412 T9)

10101-89-0 trisodium phosphate 12 hydrate

LC 50 / 96 h | >100 mg/l (*Oncorhynchus mykiss*)EC 50 / 48 h | >100 mg/l (*Daphnia magna*)EC 50 / 72 h | >100 mg/l (*Desmodesmus subspicatus*)

fatty alcohol alkoxyate

LC 50 / 96 h | 1-10 mg/l (*Leuciscus idus*)NOEC | 0.1-1 mg/l (*Daphnia magna*)0.1-1 mg/l (*Algae*)

- 12.2 Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

fatty alcohol alkoxyate

BiAS - Elimination | >90 % (OECD 301 E) (*Wismuth-aktive Substanz (mod. OECD 301E)*)

CO2 - Entwicklung | >60 % (OECD 301 B) (28 d, OECD 301 B, ISO 9439)

- 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.

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

10213-79-3 disodium silicate pentahydrate

EC 50 | >100 mg/l (OECD 209 / ISO 8192) (> 3h)

fatty alcohol alkoxyate

EC 10 | >1,000 mg/l (activated sludge (DEV - L2))

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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.
- **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

<ul style="list-style-type: none"> - 14.1 UN-Number - ADR, IMDG, IATA 	UN3253
<ul style="list-style-type: none"> - 14.2 UN proper shipping name - ADR - IMDG, IATA 	3253 DISODIUM TRIOXOSILICATE MIXTURE DISODIUM TRIOXOSILICATE MIXTURE
<ul style="list-style-type: none"> - 14.3 Transport hazard class(es) - ADR - Class - Label 	8 (C6) 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 	III
<ul style="list-style-type: none"> - 14.5 Environmental hazards: - Marine pollutant: 	No
<ul style="list-style-type: none"> - 14.6 Special precautions for user - Kemler Number: 	Warning: Corrosive substances. 80

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- EMS Number:	F-A,S-B
- Segregation groups	Alkalis
- Stowage Category	A
- Segregation Code	SG35 Stow "separated from" SGG1-acids
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	
- ADR	
- Limited quantities (LQ)	5 kg
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
- Transport category	3
- Tunnel restriction code	E
- IMDG	
- Limited quantities (LQ)	5 kg
- Excepted quantities (EQ)	Código E4 Cantidad neta máxima por envase interior: 30 ml. Cantidad neta máxima por embalaje exterior: 500 ml.
- UN "Model Regulation":	UN 3253 DISODIUM TRIOXOSILICATE MIXTURE, 8, III

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 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**
disodium silicate pentahydrate
fatty alcohol alkoxylate
- **Hazard statements**
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
- **Precautionary statements**
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
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].

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- P304+P340 *IF INHALED: Remove person to fresh air and keep comfortable for breathing.*
- P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
- P309+P311 *IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.*
- P406 *Store in a corrosion resistant container / container with a resistant inner liner.*
- **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.
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.
- **Department issuing data specification sheet:** see item 1: Informing department
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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)
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
vPvB: very Persistent and very Bioaccumulative
Met. Corr. 1: Corrosive to metals – Category 1
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- *** Data compared to the previous version altered.**