

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 118.57 (replaces version 118.56)

Revision: 23.01.2023

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

- 1.1 Product identifier

- Trade name **Cleaner 04**

- UFI: P910-S05J-E000-RT58

- 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:

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. 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].

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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.

- 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 Index number: 011-005-00-2 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	10%
Polymer Reg.nr.: 02-2119552440-48	fatty alcohol alkoxyolate Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	≥1-<2.5%

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

phosphates	≥15 - <30%
non-ionic surfactants	<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,

Other ingredients: silicates, 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.

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- **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.
- **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.

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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.

- DNELs

497-19-8 sodium carbonate

Inhalative	DNEL (worker)	10 mg/m ³ (Long-term - local effects)
	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

- **Appropriate engineering controls** In case of dust development, suction is needed.

- **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

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/face protection** Tightly sealed safety glasses.

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- 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**

- Colour:	White
- Smell:	Odourless
- 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
- pH at 20 °C	11.5
- pH-value:	
- Viscosity:	
- Kinematic viscosity	Not applicable.
- dynamic:	Not applicable.
- Solubility	
- Water:	Soluble
- Vapour pressure at 20 °C:	0.1 hPa
- Density and/or relative density	
- Density	Not determined
- Particle characteristics	See item 3.

- 9.2 Other information

- Appearance:	
- Form:	Solid.
- 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

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- **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 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 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:**

497-19-8 sodium carbonate

Oral	LD50	4,090 mg/kg (IUCLID) 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 alkoxyate

Oral	LD50	3,200 mg/kg (rat) >2,000-<5,000 mg/kg (rat) (vergleichbar mit OECD Richtlinie 401)
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- **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**
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.

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- 11.2 Information on other hazards**- Endocrine disrupting properties**

None of the ingredients is listed.

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*) (DIN 38412 Teil 15, statisch)

EC 50 >10-<100 mg/l (Algae) (read-across)

>1-<10 mg/l (*Daphnia*) (read-across)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.**- 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):****10213-79-3 disodium silicate pentahydrate**

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

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fatty alcohol alkoxyate

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

- **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.

- **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

- **14.1 UN number or ID number**- **ADR/RID/ADN, IMDG, IATA** UN3253- **14.2 UN proper shipping name**

- **ADR/RID/ADN** 3253 DISODIUM TRIOXOSILICATE MIXTURE
 - **IMDG, IATA** DISODIUM TRIOXOSILICATE MIXTURE

- **14.3 Transport hazard class(es)**- **ADR/RID/ADN**- **Class** 8 (C6) Corrosive substances.- **Label** 8- **IMDG, IATA**- **Class** 8 Corrosive substances.- **Label** 8- **14.4 Packing group**- **ADR/RID/ADN, IMDG, IATA** III- **14.5 Environmental hazards:**- **Marine pollutant:** No- **14.6 Special precautions for user**- **Warning:** Corrosive substances.- **Kemler Number:** 80- **EMS Number:** F-A, S-B- **Segregation groups** Alkalis

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- Stowage Category	A
- 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)	5 kg
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
- IMDG	
- Limited quantities (LQ)	5 kg
- Excepted quantities (EQ)	Código E4 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
- 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].

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.

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- **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.

- **Application:** Directions for use: please refer to the Technical Information Sheet- **UFI market placements:** Germany (DE)- **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:** 27.12.2022- **Version number of previous version:** 118.56- **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 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

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

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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.

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