

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

Printing date 13.10.2022

Version number 1

Revision: 13.10.2022

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

1.1 Product identifier

Trade name: **Kombidämpfer Reiniger**

- Article number: 116299V
- UFI: A5F0-F0DV-F00G-TC4M

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:

Bartscher GmbH
Franz-Kleine-Str. 28
33154 Salzkotten
www.bartscher.de

Informing department:

Tel: +49(0)5258-971-0
Fax: +49(0)5258-971-120

1.4 Emergency telephone number:

Giftnotruf Berlin
Tel. +49 (0)30 30686 700
Helpdesk in German and in English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

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:
potassium hydroxide

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- **Hazard statements**

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

- **Precautionary statements**

P102 Keep out of reach of children.
P260 Do not breathe mist/vapours/spray.
P264 Wash Haut thoroughly after handling.
P280 Wear protective gloves / 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.
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.
P405 Store locked up.
P406 Store in a corrosion resistant container / container with a resistant inner liner.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

Packaging of whatever capacity supplied to the general public shall be fitted with child-resistant fastenings.
Packaging of whatever capacity that is delivered to the general public shall be fitted with a tactile warning of danger according to EN ISO 11683.

- **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:**

Aqueous solution of substances listed below with additional ingredients not requiring labelling.

- **Dangerous components:**

CAS: 1310-58-3 EINECS: 215-181-3 Reg.nr.: 01-2119487136-33-X	potassium hydroxide ☠ Skin Corr. 1A, H314; ☠ Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	≥ 5 - ≤ 25%
CAS: 1300-72-7 EINECS: 215-090-9	sodium xylenesulphonate ☠ Eye Irrit. 2, H319	≥ 0 - < 10%
CAS: 308062-28-4 EC number: 931-292-6 Reg.nr.: 01-2119490061-47-X	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides ☠ Eye Dam. 1, H318; ☠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ☠ Acute Tox. 4, H302; Skin Irrit. 2, H315	≥ 0 - < 0.25%

- **Components according to regulation EC 648/2004 on detergents**

non-ionic surfactants, phosphates, amphoteric surfactants	<5%
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- **Additional information** For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** Instantly remove any clothing contaminated by the product.
- **After inhalation**
Move person to fresh air.
Seek medical treatment in case of complaints.
- **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact**
Remove contact lenses if possible.
Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.
Call a doctor immediately.
- **After swallowing**
Rinse out mouth.
Do NOT induce vomiting in order to prevent an invasion into the lungs.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Danger** Danger of gastric perforation.
- **4.3 Indication of any immediate medical attention and special treatment needed**
If swallowed, gastric irrigation

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Carbon dioxide
Foam
Fire-extinguishing powder
Water haze
- **For safety reasons unsuitable extinguishing agents** None known.
- **5.2 Special hazards arising from the substance or mixture**
Inhalation of combustion gases may cause serious health hazards.
- **5.3 Advice for firefighters**
- **Protective equipment:**
In case of fire wear breathing equipment being independent of ambient air and suit provided full protection against chemicals.
- **Additional information**
Use water to keep fire exposed containers cool.
Remove goods in stock from incendiary zone, if possible.
Provide for sufficient reservoirs for water for fire fighting.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Clean contaminated surfaces thoroughly.
Dilute with much water.
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Use neutralising agent.
Dispose of contaminated material as waste according to section 13.

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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**

Ensure sufficient ventilation.

Avoid contact with eyes, skin and clothes.

Do not inhale gases/vapours/aerosols.

Prevent formation of aerosols.

- **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:**

Keep container tightly closed.

Store only in the original container.

Don't use metal container.

- **Information about storage in one common storage facility:**

Keep away from food, drink and animal feeding stuffs.

- **Further information about storage conditions:**

Always store in containers that are consistent with original containers.

Keep container tightly sealed.

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

1310-58-3 potassium hydroxide
WEL (Great Britain) Short-term value: 2 mg/m³

- **DNELs**

1310-58-3 potassium hydroxide

Inhalative	DNEL (worker, long-term, local)	1 mg/m ³ (human)
	DNEL (consumer, long-term, local)	1 mg/m ³ (human)

308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides

Oral	DNEL (consumer, long-term, systemic)	0.44 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	11 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	5.5 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	6.2 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	1.53 mg/m ³ (human)

- **PNECs**

308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides

PNEC aqua (freshwater)	0.034 mg/L (.)
PNEC aqua (marine water)	0.003 mg/L (.)
PNEC STP	24 mg/L (.)
PNEC soil	1.02 mg/kg soil dw (.)
PNEC sediment (freshwater)	0.524 mg/kg sedim. dw (.)

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PNEC sediment (marine water)	0.524 mg/kg sedim. dw (.)
PNEC oral	11.1 mg/kg food (.)

· **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 foodstuffs, beverages and food.
- Take off all contaminated clothing immediately.
- Wash hands during breaks and at the end of the work.
- Avoid contact with the eyes and skin.

· Breathing equipment:

- Use breathing protection only when aerosol or mist is formed.
- Filter P2.

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

· Hand protection



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

In case of a layer thickness of 0.35 mm the penetration time is longer than 480 minutes.

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

· For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

· Eye/face protection



Tightly sealed safety glasses.

· Body protection: Alkaline resistant protective clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

- **Colour:** yellowish clear
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** 0 °C
- **Boiling point or initial boiling point and boiling range** 100 °C

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· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable
· Decomposition temperature:	Not determined.
· SADT	
· pH at 20 °C	14
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
· Water:	Fully miscible
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C	1.2
· Relative density	Not determined.
· Vapour density	Not determined.

9.2 Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Change in condition	
· Evaporation rate	Not determined.

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.

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- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Strong exothermic reaction with acids
Reacts with light alloys to form hydrogen
- **10.4 Conditions to avoid** Protect from frost.
- **10.5 Incompatible materials:** Corrosive in contact with metals
- **10.6 Hazardous decomposition products:**
None in case of intended use and storage in compliance with instructions.

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:		
1310-58-3 potassium hydroxide		
Oral	LD50	365 mg/kg (rat) (OECD 425)

- **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:	
1310-58-3 potassium hydroxide	
NOEC	28 mg/l/24h (Lepomis macrochirus)
308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	
EC50 (static)	3.1 mg/l/48h (Daphnia magna)
LC50 (static)	3.46 mg/l/96h (Pimephales promelas)
EC50	0.266 mg/l/72h (Algae)

- **12.2 Persistence and degradability** No further relevant information available.

- **Other information:** There are no data available about the preparation.

- **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.

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- **12.7 Other adverse effects**

- **Additional ecological information:**

- **General notes:**

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

The waste code numbers mentioned are recommendations based on the probable use of the product.

- **European waste catalogue**

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 06 00	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 01*	aqueous washing liquids and mother liquors
HP8	Corrosive

- **Uncleaned packagings:**

- **Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

Non contaminated packagings can be used for recycling.

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

- **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**

UN1719

- **14.2 UN proper shipping name**

- **ADR/RID/ADN**

1719 CAUSTIC ALKALI LIQUID, N.O.S.
(POTASSIUM HYDROXIDE SOLUTION)

- **IMDG, IATA**

CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM
HYDROXIDE SOLUTION)

- **14.3 Transport hazard class(es)**

- **ADR/RID/ADN**



- **Class**

8 (C5) Corrosive substances.

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· Label	8
· IMDG, IATA	
	
· Class	8 Corrosive substances.
· Label	8
· 14.4 Packing group	
· ADR/RID/ADN, IMDG, IATA	II
· 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	(SGG18) Alkalis
· Stowage Category	A
· Segregation Code	SG22 Stow "away from" ammonium salts 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)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE SOLUTION), 8, II

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

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· **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**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **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**

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

· **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.

· **Relevant phrases**

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

· **Department issuing data specification sheet:**

➤ **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
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· **Abbreviations and acronyms:**

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 Harmonised System of Classification and Labelling of Chemicals
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative

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

Acute Tox. 4: Acute toxicity – Category 4

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

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

EU