

MATERIAL SAFETY DATA SHEET

Pursuant to Commission Regulation (EU) no 2020/878 of June 18, 2020

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

Date of creation: 24/08/2022

Version: 1.0

Update date: -

1.1. Product ID :

Kitchen cleaner with antibacterial agent Konigliche Wasche

UFI: Q220-A0C0-E00S-Q7HC

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses : removing heavy dirt in the kitchen. Removes dirt and grease as well as deposits on stoves, microwave ovens, kitchen hoods, countertops, sinks and tiles .

Uses advised against : none specified.

1.3. Details of the supplier of the safety data sheet

PJ Chemikalien GmbH

Westhafenstraße 1

13353 Berlin

Tel no.: +49 30 21 96 60 38

E-mail address of the person responsible for the safety data sheet: info@pj-chemikalien.de
www.pj-chemikalien.de

1.4. Emergency telephone number

112 – emergency number

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Eye Irrit. 2H319

2.2. Signage elements



Signal word: **Attention**

Hazard statements:

H319 - Causes serious eye irritation.

Precautionary statements:

P102 - Keep out of the reach of children.

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

P337 + P313 - If eye irritation persists: Get medical advice/ attention.

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EUH 208 - Contains a mixture of 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

Detergent content according to Regulation 648/2004/EC:

Ingredients : <5% non-ionic surfactants, <5% EDTA (ethylenediaminetetraacetic acid) and its salts, fragrance compositions , 2-bromo-2-nitropropane-1,3-diol, Methylchloroisothiazolinone, Methylisothiazolinone.

2.3. Other hazards

The substance meets the criteria for classification as PBT in accordance with Regulation (EC) No. 1907/2006, Annex XIII - no

The substance meets the criteria for classification as vPvB in accordance with Regulation (EC) No. 1907/2006, Annex XII - not applicable

Other hazards not reflected in the classification – unknown

SECTION 3: Composition/information on ingredients

3.1. Substances : Not applicable

3.2. Mixtures :

Substance	CAS No	EC No	Index number/ Registration	% wt.	Classification Reg.1272/2008
Sodium metasilicate	10213-79-3	229-912-9	- 01-2119449811-37- xxxx	<1.0	Skin Corr 1B;H314 STOT SE 3; H335
tetrasodium edetate	64-02-8	200-573-9	607-428-00-2 01-2119486762-27- xxxx	<0.7	Acute Tox. 4; H302 Eye Dam.1; H318 Acute Tox,4; H332 STOT RE 2.H373
C12-14 alcohols, ethoxylene (1-2.5 TE), sulfated, sodium salts	68891-38-3	500-234-8	- 01-2119488639-16- xxxx	<0.7	Skin Irrit.2, H315 Eye Dam.1,H318 Aquatic Chronic.3,H412
sodium ethasulfate	126-92-1	204-812-8	- 01-2119971586-23- xxxx	<0.2	Skin Irrit.2,H315 Eye Dam.1,H318
didecyldimethylammonium chloride	7173-51-5	230-525-2	612-131-00-6 01-2119945987-15- xxxx	<0.2	Acute Tox,4 H302 Skin Corr,1B;H314 Eye Dam,1;H318 Aquatic Chronic,2;H411
2-Bromo-2- nitropropane-1,3-diol	52-51-7	200-143-0	603-085-00-8 01-2119980938-15- xxxx	<0.1	Acute Tox. 4H302 Acute Tox. 4H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Acute 1; H400
mixture of 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	55965-84-9	-	613-167-00-5 -	<0.0015	Acute Tox. 3H301 Acute Tox. 2H310 Acute Tox. 2H330 Skin Corr. 1B H314 Skin Sens.A 1 H317 Eye Dam. 1, H318 Aquatic Acute 1 H400 Aquatic Chronic 1; H410, M=10

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Specific concentration limits

mixture of 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1) (CAS No. 55965-84-9)

Eye Dam. 1: $C \geq 0.6\%$

Eye Irrit. 2; H319: $0.06\% \leq C < 0.6\%$

Skin Corr. 1C: $C \geq 0.6\%$

Skin Irrit. 2; H315: $0.06\% \leq C < 0.6\%$

Skin Sens. 1A: $C \geq 0.0015\%$

The full text of H phrases and acronyms of symbols, hazard classes and category codes are provided in section 16. Safety data sheets

SECTION 4: First aid measures

4.1. Description of first aid measures :

General notes : Follow the safety and use notes on the label. If symptoms occur or in case of doubt, seek medical advice.

Inhalation - Under normal conditions there is no risk. If symptoms of poisoning occur, remove the injured person from the exposure zone and provide him with access to fresh air.

Eye contact - Flush with plenty of clean water for 15 minutes, keeping eyelids open. If redness, pain and vision disturbances occur, consult an ophthalmologist .

Skin contact - remove all contaminated clothing. Wash contaminated skin with soap and water. If any disturbing symptoms occur, contact your doctor.

Ingestion - Rinse mouth with water. Do not induce vomiting. Do not give anything to an unconscious person. Contact your doctor.

4.2 Most important symptoms and effects, both acute and delayed :

Potential acute health effects

Eye contact : burning sensation, redness, swelling

Skin contact : burning, redness

Ingestion : Ingestion may cause nausea, vomiting and abdominal pain

Inhalation : Not applicable

4.3 Indications regarding any immediate medical assistance and special treatment of the injured person

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Foam, carbon dioxide or extinguishing powders. Cool containers exposed to fire with a dispersed stream of water.

Unsuitable extinguishing media: Do not use solid streams water

5.2. Special hazards arising from the substance or mixture

Hazards from the substance or mixture: Water contaminated with this substance must be collected and secured to prevent it from entering water systems, streams and wells.

Hazardous combustion products: no data

5.3. Information for the fire brigade

Special protective measures for firefighters : Quickly isolate the area by removing all persons from the immediate vicinity if a fire breaks out. You should not take any action that puts anyone at

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risk unless you are properly trained.

Special protective equipment for firefighters : Firefighters should wear appropriate protective equipment and full-face positive pressure breathing apparatus. The basic level of protection during chemical accidents is provided by clothing used by firefighters (including helmets, safety shoes and gloves), in accordance with the European standard EN 469

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Evacuate people from surrounding areas. Ensure adequate ventilation. Wear an appropriate mask when ventilation is inadequate. Wear appropriate personal protective equipment.

6.1.2. For emergency responders :

If special clothing is required for product disposal, see section 8 regarding suitable and unsuitable materials. See also the information in the section "For non-emergency personnel

6.2. Environmental precautions

Prevent spreading and penetration into sewers, ditches and river.

6.3. Methods and materials to prevent the spread of contamination and to remove contamination

Place the collected product in closed containers, taking precautions

6.4. References to other sections

Emergency contact information is provided in section 1.

Information on appropriate personal protective equipment is provided in section 8.

Information on additional waste treatment is provided in section 13.

SECTION 7: Handling and storage of substances and mixtures

7.1. Precautions for safe handling

7.1.1. When using and storing, comply with generally applicable occupational health and safety regulations. Avoid release to the environment.

7.1.2. Do not eat, drink or smoke during use. Wash your hands during breaks and after finishing work.

7.2. Conditions for safe storage, including information on any mutual incompatibilities

Store in original packaging, in covered, dry rooms, at temperatures ranging from 5.0 to 20.0°C. Protect from direct sunlight. Do not store together with foodstuffs. Protect against freezing.

7.3. Specific end use(s):

Not known .

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the highest permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286).

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Secondary impact levels

Product name/ingredient	Type	Exposure	Value	Population	Disorders
C12-14 alcohols, ethoxylene (1-2.5 TE), sulfated, sodium salts	DNEL	Long-lasting Skin	2750 mg/kg bw/day	Employees	-
	DNEL	Long-term Inhalation	175 mg/m ³	Employees	-

Concentrations at which impacts are expected

Product name/ingredient	Type	Details of the medium compartment	Value	Details of the methodology
C12-14 alcohols, ethoxylene (1-2.5 TE), sulfated, sodium salts	PNEC	Sweet water	0.24 mg/l	Assessment factors
	PNEC	Sweet water	0.024 mg/l	Assessment factors
	PNEC	Sweet water	0.071 mg/l	Assessment factors
	PNEC	Freshwater sediment	5.45 mg/kg	Equivalent division
	PNEC	Freshwater sediment	0.545 mg/kg	Equivalent division
	PNEC	Soil	0.946 mg/kg	Equivalent division

8.2. Exposure controls :

8.2.1. Appropriate engineering controls

General room ventilation.

8.2.2. Individual protective equipment such as personal protective equipment

Under normal circumstances, it is not required. Wash your hands after work. Do not eat, drink or smoke.

a) Eye and face protection : Wear safety glasses when using the product

b) Skin protection :

- Hand protection: Wear protective gloves when using the product.

- Other

c) Respiratory protection : Not required under normal conditions

d) thermal hazards: Not applicable

8.2.3. Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) State of matter: liquid

b) Color: characteristic of the ingredients used

c) Smell: characteristic of the fragrance composition used

d) Melting/freezing point: not applicable

e) Boiling point or initial boiling point and boiling range: not applicable

f) Flammability of materials: not applicable

g) Lower and upper explosion limits: not applicable

h) Flash point: not applicable

i) Auto-ignition temperature: not applicable

j) Decomposition temperature: not applicable

k) pH : 11.0-12.0

l) Kinematic viscosity: not applicable

m) Solubility : in water

n) Partition coefficient n-octanol/water (log value): not applicable

o) Vapor pressure: not applicable

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- p) Density or relative density: 1.018 +/-0.02 g/ cm³
q) Relative vapor density: not applicable
r) Characteristics of particles: not applicable

9.2. Other informations
No other data available

SECTION 10: Stability and reactivity

- 10.1. Reactivity – No experimental data on the reactivity of the product or its ingredients.
- 10.2. Chemical stability - The product is stable under normal storage and use conditions.
- 10.3. Possibility of hazardous reactions - Under normal conditions of storage and use, hazardous reactions do not occur.
- 10.4. Conditions to avoid - During storage, avoid temperatures outside the range given in section 7.2. Protect Avoid contact with acidic substances.
- 10.5. Incompatible materials – Aluminum. Do not mix with household chemicals.
- 10.6. Hazardous decomposition products - For the preparation - Does not decompose if used as intended .

SECTION 11: Toxicological information

11.1. Information on the hazard classes defined in Regulation (EC) No 1272/2008

For substance

Component	CAS No	Dose	Value	Component
Sodium metasilicate	10213-79-3	LD ₅₀ – rat orally	1152-1349	mg/kg
		LD ₅₀ – rat inhalation	>2.06	mg/m ³
		LD ₅₀ – rabbit skin	>5000	mg/kg
C12-14 alcohols, ethoxylene (1-2.5 TE), sulfated, sodium salts	68891-38-3	LD ₅₀ – rat orally	>2500	mg/kg
		LD ₅₀ – rat orally	>2000	mg/kg
		LD ₅₀ – rat orally	4100	mg/kg
sodium ethasulfate	126-92-1	LD ₅₀ – rat orally	2840	mg/kg

(a) acute toxicity;
Based on available data on the substance, the product does not meet the classification criteria.

b) skin corrosion/irritation;
Based on available data on the substance, the product does not meet the classification criteria.

c) serious eye damage/eye irritation;
Irritating to eyes.

(d) respiratory or skin sensitization;
Based on available data on the substance, the product does not meet the classification criteria.

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e) mutagenic effect on reproductive cells;

Based on available data on the substance, the product does not meet the classification criteria.

f) carcinogenicity;

Based on available data on the substance, the product does not meet the classification criteria.

(g) reproductive toxicity;

Based on available data on the substance, the product does not meet the classification criteria.

h) toxic effect on target organs - single exposure;

Based on available data on the substance, the product does not meet the classification criteria.

i) toxic effects on target organs – repeated exposure;

Based on available data on the substance, the product does not meet the classification criteria.

j) aspiration hazard.

Based on available data on the substance, the product does not meet the classification criteria.

Likely routes of exposure : eyes

11.2. Information about other threats

11.2.1. Properties that disrupt the functioning of the endocrine system

Not applicable

11.2.2. Other informations

Not applicable

SECTION 12: Ecological information

12.1. Toxicity

For the mixture: no data

For substances:

Sodium metasilicate

Toxicity to fish LC50 210mg/l/96h (Brachydanian rerio)

Toxicity to algae EC50 207mg/l/72h (Scenedesmus subspicatus)

Toxicity to daphnia EC50 1700mg/l/48h (Daphnia magna)

C12-14 alcohols, ethoxylene (1-2.5 TE), sulfated, sodium salts

Toxicity to algae EC50 2.6 mg/l/72h

Toxicity to fish LC50 7.1mg/l/96h

Tetrasodium edetate

Toxicity to fish LC50 > 100mg/l/96h (Iepomis macrochirus)

Algae toxicity EC50 > 100mg/l/72h (Scenedesmus oliquus)

Toxicity to daphnia EC50 > 100mg/l/48h (Daphnia magna)

Sodium ethasulfate

Toxicity to fish LC50 100mg/l/96h (Onocorhynchus mykiss)

Toxicity to algae EC50 511mg/l/72h (Desmodesmus subspicatus)

Toxicity to aquatic microorganisms EC50 135/mg/l/3h

Didcyldimethylammonium chloride

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Toxicity to fish LC50 0.19mg/l/96h (Pimephales promelas)

Toxicity to algae ErC50 0.026mg/l/96h

Toxicity to aquatic microorganisms EC50 11mg/l/3h

12.2. Persistence and degradability

The surfactants contained in the mixture comply with the biodegradability criteria set out in Regulation (EC) No 648/2004 on detergents. Data obtained from the safety data sheets of the mixture components. Data confirming this fact are 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 the detergent manufacturer

12.3. Bioaccumulative potential

No data

12.4. Mobility in soil

No data

12.5. Results of PBT and vPvB assessment

No data

12.6. Properties that disrupt the functioning of the endocrine system

No data

12.7. Other harmful effects

No data

SECTION 13: Waste treatment

13.1. Waste disposal methods :

Follow the legal regulations in force in a given area. Thoroughly emptied product packaging is subject to the municipal waste collection system .

Legal basis:

Community law: Directive 2008/98/EC, 2014/955/EU, Commission Regulation (EU) No 1357/2014

National law: Act of December 14, 2012 on waste (Journal of Laws 2013, item 21) Act of 13 June 2013 on packaging and packaging waste management (Journal of Laws 2013, item 888)

SECTION 14: Transport information

14.1. UN number or ID number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es).

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for users

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Not applicable

14.7. Maritime transport in bulk in accordance with IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific to the substance or mixture

- Act of February 25, 2011 on chemical substances and their mixtures. (Journal of Laws 2011, No. 63, item 322.) as amended.
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 14/94, as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.
- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No. 1907/2006 (OJ EU L 353 of December 31, 2008) as amended.
- Directive 2008/98/EC, 2014/955/EU, Commission Regulation (EU) No 1357/2014
- Act of December 14, 2012 on waste (Journal of Laws 2013, item 21)
- Act of 13 June 2013 on packaging and packaging waste management (Journal of Laws of 2013, item 888)
- Regulation of the Minister of Labor and Social Policy of November 29, 2002 on the highest permissible concentrations and intensities of factors harmful to health in the work environment. (Journal of Laws 2002, No. 217, item 1833, as amended).

15.2. Chemical safety assessment

The supplier did not assess the chemical safety of the mixture.

SECTION 16: Other information

H phrases:

- H301** - Toxic if swallowed.
- H302** - Harmful if swallowed.
- H310** - Fatal in contact with skin.
- H312** - Harmful in contact with skin.
- H314** - Causes severe skin burns and eye damage.
- H315** - Causes skin irritation.
- H317** - May cause an allergic skin reaction .
- H318** - Causes serious eye damage .
- H330** - Fatal if inhaled.
- H332** - Harmful if inhaled.
- H335** - May cause respiratory irritation.
- H400** - Very toxic to aquatic life .
- H410** - Very toxic to aquatic life with long lasting effects
- H411** - Toxic to aquatic life with long lasting effects.
- H412** - Harmful to aquatic life with long lasting effects.

Training tips

Read the safety data sheet before use

Explanation of abbreviations and acronyms used in the safety data sheet

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CAS (Chemical Abstracts Service)

The EC number means one of the three numbers listed below :

- number assigned to the substance in the European Inventory of Existing Commercial Substances (EINECS)
- number assigned to the substance in the European List of Notified Substances (Elincs)
- number in the list of chemical substances listed in the European Commission publication "No-longer polymers"

NDS - the highest permissible concentrations of substances harmful to health in the work environment

TEL - the highest permissible temporary concentration

NDSP - the highest permissible ceiling concentration

UN number - Material identification number (UN number, UN number)

ADR - European agreement concerning the international carriage of dangerous goods by road,

Other sources of information

IUCLID International Uniform Chemical Information Database

ESIS European Chemical Substances Information System

Additional information :

Data for registered substances: <http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

The information contained in the safety data sheet is intended to describe the product only from the point of view of safety requirements. The user is responsible for creating conditions for the safe use of the product and is responsible for the consequences resulting from improper use of this product.