

MATERIAL SAFETY DATA SHEET

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

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

Date created: 21.12.2020

Version: 2.0

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1.1. Product identifier :

ANTI-LIME AND RUST REMEDY Konigliche Wash

UFI: T020-T0NM-4008-1VX9

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Removal of scale and rust from cleaned surfaces.

Uses advised against : not determined.

1.3. Details of the supplier of the safety data sheet

PJ Chemicals 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. 2 H319

2.2. Labeling elements



Signal Word: **Warning**

Hazard statements:

H319 - Causes serious eye irritation.

Precautionary statements:

P102 - Keep out of reach of children.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for

a few minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention. **P280** - Wear protective gloves and eye protection.

P501 Dispose of contents and container in accordance with applicable national regulations.

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.

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Detergent content according to Regulation 648/2004/EC:

Ingredients : <5% non-ionic surfactants, fragrances , 2-bromo-2-nitropropane-1,3-diol, Methylchloroisothiazolinone, Methylisothiazolinone.

2.3. Other threats

The substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII – no

The substance meets the criteria for classification as vPvB according to Regulation (EC) No. 1907/2006, Annex XII – not applicable

Other threats 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 No.	% wt.	Classification Reg.1272/2008
Alcohols, C12-14, ethoxylated (1-2.5TE) sulfated, sodium salts	68891-38-3	500-234-8	01-2119488639-16-XXXX-	<1	Skin Irrit.2,H315 Eye Dam.1 H318 Aquatic Chronic.3,H315
Amidosulfonic acid	5329-14-6	226-218-8	016-026-00-0 01-2119488633-28-XXXX	<6	Skin Irrit.2,H315 Eye Irrit.2,H319 Aquatic Chronic.3,H412
2-Bromo-2- nitropropane-1,3-diol	52-51-7	200-143-0	603-085-00-8 01-2119980938-15-XXXX	<0.01	Acute Tox. 4 H302 Acute Tox. 4 H312 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. 3 H301 Acute Tox. 2 H310 Acute Tox. 2 H330 Skin Corr. 1B H314 Skin Sens.A 1 H317 Eye Dam. 1, H318 Aquatic Acute 1 H400 Aquatic Chronic 1; H410, M=10

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 ≥ 0.6%

Eye Irrit. 2; H319: 0.06% ≤ C < 0.6%

Skin Corr. 1C: C ≥ 0.6%

Skin Irrit. 2; H315: 0.06% ≤ C < 0.6%

Skin Sens. 1A: C ≥ 0.0015%

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

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SECTION 4: First aid measures

4.1. Description of first aid measures :

General advice : Please follow the safety and usage instructions on the label. If symptoms occur or if in doubt, consult a doctor.

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

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

Skin contact – remove all contaminated clothing. Wash contaminated skin with soap and water. If disturbing symptoms occur, contact a doctor.

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

4.2 Most important acute and delayed symptoms and effects of exposure :

Potential acute health effects

Eye contact : burning sensation, redness.

Skin contact : possible irritation.

Ingestion : Ingestion may cause nausea, vomiting, abdominal pain.

Inhalation : Not applicable

4.3 Indications of any immediate medical attention and special treatment for the injured person

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Foam, carbon dioxide or dry chemical. Cool containers exposed to fire with a water spray.

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 contained and prevented from entering water systems, streams and wells.

Hazardous combustion products: no data

5.3. Information for the fire brigade

Special precautions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken which involves any personal risk unless specifically trained.

Special protective equipment for firefighters : Firefighters should wear appropriate protective equipment and self-contained breathing apparatus with a full facepiece operating in positive pressure mode. Basic protection during chemical incidents is provided by firefighter clothing (including helmets, safety boots and gloves) complying with 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 the surrounding areas. Provide adequate ventilation. Wear an appropriate mask when ventilation is inadequate. Wear appropriate personal protective equipment.

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6.1.2. For persons providing assistance :

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

6.2. Environmental precautions

Prevent the spread and penetrating into sewers, ditches and river.

6.3. Methods and materials for containment and cleaning up

Place the collected product in closed containers using appropriate precautions and dispose of it in accordance with local regulations.

6.4. References to other sections

Emergency contact information is provided in Section 1.

See Section 8 for information on appropriate personal protective equipment.

Information on additional waste treatment is given in Section 13.

SECTION 7: Handling and storage of substances and mixtures

7.1. Precautions for safe handling

7.1.1. During use and storage, observe generally applicable occupational health and safety regulations. Avoid release into the environment.

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

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

Store in original packaging, in covered, dry places, at a temperature between 5.0-20.0°C. Protect from direct sunlight. Do not store together with food. Protect from 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, Labour and Social Policy of 12 June 2018 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2018 item 1286).

DNEL (Employees):

Component	CAS No.		Short exposure		Long exposure	
			Systematic	Local	Systematic	LocalAmidosulfonic acid
Amidosulfonic acid	5329-14-6	Oral	-	-	No data available	-
		Skin	-	-	10mg/kg b.c./d	-
		exhaust	-	-	No data available	-

DNEL (Population):

Component	CAS No.		Short exposure		Long exposure	
			Systematic	Local	Systematic	Local
Amidosulf	5329-	Oral	-	-	No data	-

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onic acid	14-6				available	
		Skin	-	-	No data available	-
		exhaust	-	-	5mg/kg b.c/d	-

PNEC:

Component	CAS No.				
Amidosulfonic acid	5229-14-6	Sewage treatment plant	2mg//	Fresh water	0.048mg/l
		Soils	0.00638mg/kg	Sea waters	0.0048mg/l
		Occasional		Sediment (Fresh Water)	0.173mg/kg
		Oral		Sediment (Sea water)	0.0173mg/kg

DNEL

Product name	Type	Exposure	Value	Population	Disorders
AlcoholsC12-14 ethoxylated (12.5TE) sulfated, sodium salts	DNEL	Long term skin	2750mg/kg bw/d	Employees	
	DNEL	long term inhalation	175mg/m ³	employees	

PNEC

Product name	Type	Data	Value	Details of the methodology
AlcoholsC12-14 ethoxylated (1-2,5TE) sulfated, sodium salts	PNEC	fresh water	0.24mg/l	evaluation factor
	PNEC	fresh water	0.024mg/l	evaluation factor
	PNEC	fresh water	0.071mg/l	active assessment
	PNEC	freshwater sediment	5.45mg/kg	Equivalent division
	PNEC	freshwater sediment soil	0.0545mg/kg	Equivalent division
			0.946mg/kg	Equivalent division

8.2. Exposure controls :

8.2.1. Appropriate technical control measures

General room ventilation.

8.2.2. Individual protection measures such as personal protective equipment

Under normal circumstances, not required. Wash 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 control

Avoid release into the environment.

SECTION 9: Physical and chemical properties

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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 point/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 1% r-ru- 2.5-3
- l) Kinematic viscosity: not applicable
- m) Solubility : in water
- n) Partition coefficient n-octanol/water (log coefficient value): not applicable
- o) Vapor pressure: not applicable
- p) Density or relative density: 1.002 +/-0.02 g/cm³
- q) Relative vapor density: not applicable
- r) Particle characteristics: not applicable

9.2. Other information

No other data

SECTION 10: Stability and reactivity

10.1. Reactivity – No experimental data on the reactivity of the product or its ingredients are available.

10.2. Chemical stability - The product is stable under normal conditions of storage and use.

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. Under normal conditions of use and storage, hazardous reactions will not occur.

10.5. Incompatible materials – Do not mix with household chemical products.

10.6. Hazardous decomposition products - For the preparation – Does not decompose if used as intended .

SECTION 11: Toxicological information

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

For substances

Substance	CAS	Dose	Value	Unit
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Amidosulfonic acid	5329-14-6	LD50 – oral (rat) LD50 - skin	3160 no data	mg/kg
Alcohols C12-14 ethoxylated (1-2.5TE) sulfated, sodium salts	68891-38-3	LD50 – oral (rat) LD50 -skin	>2500-4100 >2000	mg/kg 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 sensitisation;

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

(e) mutagenic effect on germ cells;

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

f) carcinogenic effect;

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) target organ toxicity – single exposure;

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

i) specific target organ toxicity – 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. Endocrine disrupting properties

Not applicable

11.2.2. Other information

Not applicable

SECTION 12: Ecological information

12.1. Toxicity

For the mixture: no data

For substances:

Component	CAS No.	Dose	Value	Unit
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Amidosulfonic acid	5329-14-6	LC ₅₀ - (Leuciscus idus)	>1000	mg/l/(16h)
		LC ₅₀ - (Pimephales promelas)	70.3	mg/l/(96h)
Alcohols C12-14 ethoxylated (2.5TE) sulfated, sodium salts	68891-58-3	LC50 -(Brachydanio rerio)	7.1	mg/l/96h
		EC50-(Desmodesmus supspicatus)	2.6	mg/l/72h

12.2. Persistence and degradability

The surfactants contained in the mixture comply with the biodegradability criteria of 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 upon their direct request or upon request of a detergent manufacturer

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Endocrine disrupting properties

This substance/mixture does not contain endocrine disrupting ingredients as defined in REACH Article 57(f) of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 20218/606 at levels of 0.1% or higher.

12.7. Other harmful effects

No data available

SECTION 13: Waste treatment

13.1. Waste disposal methods :

Proceed in accordance with the laws 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 14 December 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

In accordance with ADR and RID requirements:

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

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14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for users

Not applicable

14.7. Bulk sea transport in accordance with IMO instruments

Not applicable

SECTION 15: Legal Information

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

- Act of 25 February 2011 on chemical substances and their mixtures. (Journal of Laws 2011, No. 63, item 322) with subsequent amendments.
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a 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 with subsequent amendments.
- 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, Authorisation and Restriction of Chemicals (REACH)
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling 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 31 December 2008) with subsequent amendments.
- Directive 2008/98/EC, 2014/955/EU, Commission Regulation (EU) No 1357/2014
- Act of 14 December 2012 on waste (Journal of Laws 2013, item 21)
- Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws 2013, item 888)
- Regulation of the Minister of Labour and Social Policy of 29 November 2002 on the maximum permissible concentrations and intensities of harmful health factors in the work environment. (Journal of Laws 2002, No. 217, item 1833, as amended).

15.2. Chemical safety assessment

The supplier did not perform a chemical safety assessment of the mixture.

SECTION 16: Other information

H phrases:

- H225** - Highly flammable liquid and vapour.
- 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 .
- H319** - Causes serious eye irritation.
- H330** - Fatal if inhaled.

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H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
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

Before use, read the safety data sheet.

Explanation of abbreviations and acronyms used in the safety data sheet

CAS (Chemical Abstracts Service)

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

- the number assigned to the substance in the European Inventory of Existing Commercial Chemical Substances (EINECS)
- the 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"

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

OELCh - the highest allowable momentary 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: <https://www.eldiom.chemikalia.gov.pl/#/>

The information provided 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 safe use of the product and is responsible for the consequences resulting from improper use of this product.