

MATERIAL SAFETY DATA SHEET

According to 1907/2006/EC (REACH)

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

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1.1. Product identifier

Königliche Wäsche - Grüne Energie Washing Gel

UFI: X830-E00J-Q00Q-Y0P8

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

Relevant identified uses: Gel for washing in all types of washing machines and for hand washing.

Uses advised against: not determined.

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

112 - the emergency number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Irrit. 2 H319 - Causes serious eye irritation.

2.2. Label 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 several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Detergent composition in accordance with Regulation 648/2004 / EC:

Ingredients: 5-15% anionic surfactants, <5% non-ionic surfactants, perfumes, Linalool, enzymes (subtilisin, Lipase, triacylglycerol, amylase, α -), 2-bromo-2-nitropropane-1,3-diol, Methylchloroisothiazolinone, Methylisothiazolinone.

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EUH208 – Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

2.3. Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII - no
Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII -
Not available

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Compound	CAS No.	EC No.	Index number REACH no.	% w/w	Classification according to Regulation No. 1272/2008
Alcohols C12-14, ethoxylated (1-2.5 EO), suphated, sodium salts	68891-38-3	500-234-8	- 01-2119488639-16- xxxx	<5,0	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Benzenesulfonic acid, C10-13 alkyl derivative, sodium salt	68411-30-3	270-115-0	- 01-2119489428-22- xxxx	<4,0	Acute Tox. 4 H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2- methyl-2H-isothiazol-3-one (3:1)	55965-84-9	-	603-085-00-8 01-119980938-15- xxxx	<0,0015	Acute Tox. 3 H301 Acute Tox. 2 H310 Skin Corr. 1C H314 Eye Dam. 1, H318 Skin Sens. 1A H317 Acute Tox. 2 H330 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Specific Concentration limits

Alcohols C12-14, ethoxylated (1-2.5 EO), suphated, sodium salts

Eye Irrit. 2; H319: $\geq 5\% < 10\%$

Eye Dam. 1: $C \geq 10\%$

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).

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: $C \geq 0,0015\%$

Additional information: For full text of H statements, please refer to Section:16

SECTION 4: First aid measures

4.1. Description of first aid measures

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General comments: should be adhered these safety precautions and usage contained on the label. With the occurrence of symptoms or in cases of doubt seek medical advice.

Inhalation - In normal circumstances cause no threat.

Eye contact – Remove contact lenses. Rinse eyes with cold water for 10 minutes (small water flow directed to outer side of the face - never directed to healthy eye). Seek medical attention if irritation persists.

Skin contact - Contaminated skin rinse with plenty of water. Seek medical attention if irritation persists.

Ingestion - Rinse the mouth with water. To give a small amount of water to drink. Prevent vomiting. Seek medical attention.

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

Potential acute health effects

Eye contact: burning sensation, redness, swelling

Skin contact: burning sensation, redness

Ingestion: Ingestion of large amounts causes nausea, vomiting, abdominal pain

Inhalation: Not applicable

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable Extinguishing media: Do not use condensed streams of water.

5.2. Special hazards arising from the substance or mixture

Hazards from the substance or mixture: Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products: no data

5.3. Advice for firefighters

Special precautions for firefighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Evacuate surrounding areas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

6.1.2. For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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6.2. Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

6.3. Methods and material for containment and cleaning up

Gather up the product submitted in sealed containers to security precautions

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1.1. While use and storage observe the generally applicable safety and health at work. Avoid release to the environment

7.1.2. Not to eat and drink. Washed surfaces thoroughly rinse with water. Upon use - wash your hands.

7.2. Conditions for safe storage, including any incompatibilities

Store in the original packaging, under cover, dry, temperature in the range 3,0 – 25,0°C. Protect from direct sunlight. Protect from freezing.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The occupational exposure limit values (NDS, NDSCh, NDSP according to Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 regarding the highest permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286).

Values NDS, NDSCh, NDSP

Ingradients	NDS [mg/m ³]	NDSCh [mg/m ³]	NDSP [mg/m ³]
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	0,2	0,4	-

Derived effect levels

Product/ingredient name	Type	Exposure	Value	Population	Effects
Alcohols C12-14, ethoxylated (1-2.5 EO), suphated, sodium salts	DNEL	Long term Dermal	2750 mg/ kg bw/ day	Workers	-
	DNEL	Long term Inhalation	175 mg/m ³	Workers	-
Benzenesulfonic acid, C10-13 alkyl derivative, sodium salt	DNEL	Long term Dermal	170 mg/kg bw/day	Workers	-
	DNEL	Long term Inhalation	12 mg/m ³	Workers	-
	DNEL	Long term Oral	0,85 mg/ kg bw/day	Consumers	-
	DNEL	Long term Dermal	85 mg/kg bw/day	Consumers	-
	DNEL	Long term Inhalation	3 mg/m ³	Consumers	-

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Predicted effect concentrations

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
Alcohols C12-14, ethoxylated(1-2.5 EO), suphated, sodium salts	PNEC	Fresh water	0,24 mg/l	Assessment Factors
	PNEC	Sea water	0,024 mg/l	Assessment Factors
	PNEC	Wastewater treatment plant	0,071 mg/l	Assessment Factors
	PNEC	Fresh water sediment	5,45 mg/kg	Equilibrium Partitioning
	PNEC	Sediment in sea water	0,545 mg/kg	Equilibrium Partitioning
	PNEC	Soil	0,946 mg/kg	Equilibrium Partitioning
Benzenesulfonic acid, C10-13 alkyl derivative, sodium salt	PNEC	Fresh water	0,268 mg/l	Assessment Factors
	PNEC	Marine	0,0268 mg/l	Assessment Factors
	PNEC	Sediment	8,1 mg/kg	Assessment Factors
	PNEC	Marine	0,0167 mg/	Assessment Factors
	PNEC	Sewage Treatment Plant	3,43 mg/	Assessment Factors

8.2. Exposure controls

8.2.1. Appropriate engineering controls

General ventilation of room.

8.2.2. Individual protection measures, such as personal protective equipment

In normal circumstances is not required. Wash hands after work. Do not eat or drink or smoke.

(a) Eye/face protection

Not normally required, but if necessary, wear safety goggles and/or a face shield. Avoid eye contamination.

(b) Skin protection

Hand protection: In normal circumstances is not required

Other: -

(c) Respiratory protection

In normal circumstances is not required

(d) Thermal hazards

not applicable

8.2.3. Environmental exposure controls

Avoid environmental pollution.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a) Physical state: liquid

(b) Colour: characteristic for used dyes

(c) Odour: characteristic for used fragrance

(d) Melting point/freezing point: not applicable

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

(f) Flammability: not applicable

(g) Lower and upper explosion limit: not applicable

(h) Flash point: not applicable

(i) Auto-ignition temperature: not applicable

(j) Decomposition temperature: not applicable

(k) pH: 7,5-9,5

(l) Kinematic viscosity: not applicable

(m) Solubility: water

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

(o) Vapour pressure: not applicable

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- (p) Density and/or relative density: not applicable
(q) Relative vapour density: not applicable
(r) Particle characteristics: not applicable

9.2. Other information

No additional information

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is not reactive under normal storage and use conditions.

10.2. Chemical stability

Under normal conditions of pressure and temperature

10.3. Possibility of hazardous reactions

Not known

10.4. Conditions to avoid

Avoid temperatures different from range in 7.2. Keep away from sunlight and avoid contamination.

10.5. Incompatible materials

No data

10.6. Hazardous decomposition products

For mixture - not known. May create sulphur oxide

SECTION 11: Toxicological information

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

For substances:

Compound	CAS No.	Portion	Value	Unit
Alcohols C12-14, ethoxylated (1-2.5 EO), sulphated, sodium salts	68891-38-3	LD ₅₀ – oral rat	>2500	mg/kg
Benzenesulfonic acid, C10-13 alkyl derivative, sodium salt	68411-30-3	LD ₅₀ – oral rat	1080	mg/kg
		LD ₅₀ – Dermal rat	> 2000	mg/kg

(a) acute toxicity

Based on available data, the classification criteria are not met.

(b) skin corrosion/irritation

Based on available data, the classification criteria are not met.

(c) serious eye damage/irritation

Causes serious eye irritation.

(d) respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

(e) germ cell mutagenicity

Based on available data, the classification criteria are not met.

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(f) carcinogenicity

Based on available data, the classification criteria are not met.

(g) reproductive toxicity

Based on available data, the classification criteria are not met.

(h) STOT-single exposure

Based on available data, the classification criteria are not met.

(i) STOT-repeated exposure

Based on available data, the classification criteria are not met.

(j) aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

The product does not contain substances identified as disrupting the functioning of the endocrine system (human health) in a concentration equal to or greater than 0.1% by weight.

11.2.2. Other information

not applicable

SECTION 12: Ecological information

12.1. Toxicity

The product is not classified as hazardous to the aquatic environment.

For substance:

Product/ingredient name	Result	Species	Exposure
Alcohols C12-14, ethoxylated (1-2.5 EO), sulphated, sodium salts	Acute EC50 2,6 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 27 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 7,2 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

12.2. Persistence and degradability

The surfactants contained in the mixture are consistent with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents.

12.3. Bioaccumulative potential

No data

12.4. Mobility in soil

Product is soluble in water.

12.5. Results of PBT and vPvB assessment

No data

12.6. Endocrine disrupting properties

No data
The product does not contain substances identified as disrupting the endocrine system (environment) in a concentration equal to or greater than 0.1% by weight.

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12.7. Other adverse effects
no data

SECTION 13: Disposal considerations

13.1. Waste treatment methods:

Follow the laws in force in the area. Thoroughly emptied packaging products are the subject of municipal waste collection.

Legal basis:

- The 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 (Dz.U.2013 item 888).

SECTION 14: Transport information

According to the requirements of ADR / RID:

14.1. UN number or ID numer

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

No

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- ⚠ 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
- ⚠ 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
- ⚠ The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- ⚠ REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents
- ⚠ The Act of 25 February 2011. on chemical substances and mixtures thereof. (Dz.U. 2011, nr 63, poz.

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322.), as amended

- ⤴ COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- ⤴ DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives
- ⤴ COMMISSION DECISION of 18 December 2014 amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of the Council
- ⤴ COMMISSION DIRECTIVE 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

15.2. Chemical safety assessment

The supplier has not carried out evaluation of chemical safety.

SECTION 16: Other information

H phrases:

- H301** Toxic if swallowed.
- H302** Harmful if swallowed.
- H310** Fatal 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.
- H400** Very toxic to aquatic life.
- H410** Very toxic to aquatic life with long-lasting effects.
- H412** Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DEL = Derived effect levels
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PEC = Predicted effect concentrations
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
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
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Above information are elaborated in base of present accessible data characterizing product, experience and knowledge of the producer. They are not a part of product quality description not even a promise for specific characteristics. They should be treated as help for safe storing, using

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and transporting of product. However the worker is not without responsibility to. He should correctly use above information and comply with all law standards valid in this field.
field.