

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.07.2020

Version number 100

Revision: 28.07.2020

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

- **1.1 Product identifier**
- **Trade name** **BEEM PREMIUM REINIGUNGSTABLETTEN**
- **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** according to product labelling
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
BEEM Germany GmbH
Am Heisterbusch 1
D-19258 Gallin
Phone: 0049 38851 314 650
www.beem.de
- **Informing department:** see above
- **1.4 Emergency telephone number:** see above

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Eye Irrit. 2 H319 Causes serious eye 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**



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- **Signal word** Warning
- **Hazard statements**
H319 Causes serious eye irritation.
- **Precautionary statements**
P102 Keep out of reach of children.
P264 Wash hands thoroughly after handling.
P280 Wear eye protection / face protection.
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.
- **Additional information:**
- Store in dry place -
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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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 Reg.nr.: 01-2119485498-19	sodium carbonate Eye Irrit. 2, H319	25-50%
CAS: 15630-89-4 EINECS: 239-707-6 Reg.nr.: 01-2119457268-30	disodium carbonate, compound with hydrogenperoxide (2:3) Ox. Sol. 3, H272; Eye Dam. 1, H318; Acute Tox. 4, H302	≥10-<25%
CAS: 5949-29-1 EINECS: 201-069-1 Reg.nr.: 01-2119457026-42	citric acid monohydrate Eye Irrit. 2, H319	≥2.5-<10%

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

oxygen-based bleaching agents, phosphates	≥15 - <30%
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- **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- General advice:

In case of unconsciousness bring patient into stable side position for transport.

In case of persistent symptoms receive medical treatment.

- After inhalation

After inhaling the product-dust, breathe in plenty of fresh air.

Consult a doctor.

Obtain medical advice if pain or irritation persist.

- After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

- After eye contact

Remove contact lenses.

Use eye protection.

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

Consult a doctor in case of symptoms.

- After swallowing

Do not induce vomiting.

Rinse mouth with water and drink plenty of water in small sips.

Unconscious persons must not be injected with liquid, suffocation risk!

In case of persistent symptoms consult doctor.

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

No further relevant information available.

- 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.

- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

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- 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire:

Oxygen (promotes combustion)

carbon monoxide (CO)

carbon dioxide (CO₂)

- 5.3 Advice for firefighters

- Protective equipment:

See section 8.

Wear self-contained breathing apparatus.

- Additional information

Move containers from area of the fire if this can be done without risk.

Endangered containers in the surrounding area should be cooled with a water-hose.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment and keep unprotected persons away.

Avoid eye and skin contact.

Do not breathe dust.

- 6.2 Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

If large amounts are released, the authorities must be informed.

- 6.3 Methods and material for containment and cleaning up:

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

The usual good standards of industrial hygiene should be maintained.

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.

Prevent formation of dust.

Avoid contact with eyes or skin.

- Information about protection against explosions and fires:

Organic solids: dust can form an explosive mixture with air.

Keep ignition sources away - Do not smoke.

- 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:

Store only in the original container.

Keep container tightly closed and dry

- Information about storage in one common storage facility:

Store away from metals.

Store away from reducing agents.

Keep away from alkali.

Store away from flammable substances.

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- Further information about storage conditions:

Keep container tightly sealed.

Store under dry conditions.

- 7.3 Specific end use(s) No further relevant information available.**SECTION 8: Exposure controls/personal protection****- Additional information about design of technical systems:**

In case of dust development, suction is needed.

- 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)

15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)

Dermal	DNEL (worker)	12.8 mg/cm ² (Acute, local effects) (Skin and eye irritation / corrosion)
		12.8 mg/cm ² (Long-term - local effects) (Skin and eye irritation / corrosion)
	DNEL (population)	6.4 mg/cm ² (Acute, local effects) (Skin and eye irritation / corrosion)
		6.4 mg/cm ² (Long-term - local effects) (Skin and eye irritation / corrosion)
Inhalative	DNEL (worker)	5 mg/m ³ (Long-term - local effects)

- PNECs**15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)**

PNEC water	0.035 mg/l (freshwater)
PNEC water	0.035 mg/l (intermittent releases)
	0.035 mg/l (marine water)
PNEC STP	16.24 mg/l (sewage plant)

5949-29-1 citric acid monohydrate

PNEC water	440 mg/l (water)
PNEC sediment	3.46 mg/kg dw (freshwater)
	34.6 mg/kg dw (Seawater)
PNEC soil	33.1 mg/kg dw (soil)
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****- Personal protective equipment****- General protective and hygienic measures**

The usual precautionary measures should be adhered to in handling the chemicals.

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: Not necessary if room is well-ventilated.

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- Protection of hands:

Protective gloves.

Check protective gloves prior to each use for their proper condition.

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

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.

suitable are:

Nitrile rubber, NBR

PVC gloves

- 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 protection: Sealing safety goggles with protection at the side**- Body protection:** Standard protective working clothes

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties**- General Information****- Appearance:**

Form:	Solid. Tablets
Colour:	White
- Smell:	Characteristic

- pH-value at 20 °C:	~10
- Melting point/freezing point:	Not determined
- Initial boiling point and boiling range:	Not determined

- Flash point: not applicable**- Inflammability (solid, gaseous)** Not determined**- Decomposition temperature:** Not determined.**- Self-inflammability:** Product is not selfigniting.**- Explosive properties:** Product is not potentially explosive**- Density** Not determined**- Evaporation rate** Not applicable.**- Solubility in / Miscibility with Water:** Soluble**- Viscosity:**
dynamic: Not applicable.**kinematic:** Not applicable.**- 9.2 Other information** No further relevant information available.

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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 and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid**
To avoid: warmth, flames, sparks
Humidity
- **10.5 Incompatible materials:**
Bases, base metal
Reducing agent
combustible substances
- **10.6 Hazardous decomposition products:**
In case of fire: see section 5
Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **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	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)

15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)

Oral	LD50	1,034 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

5949-29-1 citric acid monohydrate

Oral	LD50	3,000 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:**

- **STOT-repeated exposure:**

5949-29-1 citric acid monohydrate

Oral	NOAEL	1,200 mg/kg (rat)
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- **Additional toxicological information:** irritant
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.

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- **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.

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

497-19-8 sodium carbonate

LC 50 / 96 h	300 mg/l (<i>Lepomis macrochirus</i>)
EC 50 / 48 h	200-227 mg/l (<i>Ceriodaphnia dubia</i>)

15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)

LC 50 / 96 h	70.7 mg/l (<i>Pimephales promelas</i>)
EC 50 / 48 h	4.9 mg/l (<i>Daphnia magna</i>)
NOEC / 96 h	7.4 mg/l (<i>Pimephales promelas</i>)
NOEC / 48 h	2 mg/l (<i>Daphnia pulex</i>)

5949-29-1 citric acid monohydrate

LC 50 / 96 h	440-760 mg/l (<i>Leuciscus idus</i>) (OECD 203)
EC 50 / 72 h	120 mg/l (<i>Daphnia magna</i>)

- 12.2 Persistence and degradability

There is no information on the product available.

5949-29-1 citric acid monohydrate

Biodegradability	97 % (OECD 301 B) (28 d)
	98 % (Zahn-Wellens-Test (OECD 302 B))

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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:

After complete emptying and cleaning, send to be reconditioned or recycled.

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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.

- Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information

- 14.1 UN-Number	
- ADR, IMDG, IATA	Void
- 14.2 UN proper shipping name	
- ADR, IMDG, IATA	Void
- 14.3 Transport hazard class(es)	
- ADR, IMDG, IATA	
- Class	Void
- 14.4 Packing group	
- ADR, IMDG, IATA	Void
- 14.6 Special precautions for user	Not applicable.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	Not dangerous according to the above specifications.
- UN "Model Regulation":	Void

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**



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- **Signal word** Warning

- **Hazard statements**

H319 Causes serious eye irritation.

- **Precautionary statements**

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P280 Wear eye protection / face protection.

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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- **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.

- **National regulations**- **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

- **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**

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.

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

- **Contact:** see item 1: Informing department- **Abbreviations and acronyms:**

NOAEL: No Observed Adverse Effect Level

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

ADR: Accord européen sur le transport 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

Ox. Sol. 3: Oxidizing solids – Category 3

Acute Tox. 4: Acute toxicity - oral – Category 4

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

- *** Data compared to the previous version altered.**