

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.04.2022

Date of compilation: 11.04.2022

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

- **1.1 Product identifier**
- **Trade name: Bacteriostatic Water**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category** PC21 Laboratory chemicals
- **Application of the substance / mixture**
Laboratory chemicals
(see more labels, or product / data sheet)
- **Not recommended uses** All except above mentioned uses.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
PARTICLE s.r.o.
Kolonáda 4490/18
SK-984 01 Lučenec (Slovakia)
Tel: +421 917 149 682
E-mail: info@particlepeptides.com
- **Further information obtainable from:** EKO-ADR, s.r.o., ekoadr@ekoadr.sk
- **1.4 Emergency telephone number:**
Poisons Centres in Europe (consultation in case of acute intoxication):
<http://www.eapcct.org/index.php?page=links>

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified, according to the CLP regulation.
- **Additional information:**
Although the product is not classified as dangerous, may show signs of danger (see sections 9-12 SDS).
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Precautionary statements** Void
- **Additional information:**
Dispose of the packaging / contents in accordance with the Waste Act at a designated collection point.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT / vPvB:**
According to the information available, the product does not meet criteria such as PBT (persistent, bioaccumulative and toxic) or as vPvB (very persistent, very bioaccumulative) in accordance with Annex XIII of REACH (substance on its own or in a mixture).
- **Determination of endocrine-disrupting properties**
According to the information available, the product does not meet the criteria for having endocrine disrupting properties (substance on its own or in a mixture).

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** An aqueous solution consisting of the substances listed below.

- **Dangerous components:**

CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5	Benzyl alcohol	⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	1.0%
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- **Non dangerous components:**

CAS: 7732-18-5 EINECS: 231-791-2	water		up to 100%
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· **Additional information:**

For the wording of the listed hazard statements (so-called H sentence) and supplemental hazard statements (so-called EUH sentence) refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Remove contaminated clothing and shoes (use of personal protective equipment, see section 8). In case of any uncertainty or if any symptoms occur, seek medical assistance and show this SDS or label. Protect your health. Information for doctor: treatment is symptomatic.

· **After inhalation:**

Under normal circumstances, it is not expected to provide first aid.
Ensure of fresh air. In the event of symptoms refer for medical treatment.

· **After skin contact:**

Under normal circumstances, it is not expected to provide first aid.
In case of contact with skin wash off with running water. Remove contaminated clothing. Seek medical help if necessary.

· **After eye contact:**

Under normal circumstances, it is not expected to provide first aid.
Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

If swallowed by mistake wash out with plenty of water. Do not induce vomiting. Call doctor immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available (for more see sections 2 and 11).

· **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:**

Product is non-combustible.
Carbon dioxide, dry extinguisher, alcohol resistant foam (large fire). Cool container at risk with water jet spray.
Fire-extinguishing activities according to surrounding.

· **For safety reasons unsuitable extinguishing agents:** Not determined.

· **5.2 Special hazards arising from the substance or mixture**

In heated or fire, it can create harmful gases and vapors. Inhalation of hazardous decomposition products may cause damage to health.
Carbon dioxide (CO₂).
Carbon oxide (CO).

· **5.3 Advice for firefighters**

· **Protective equipment:**

Do not stay in dangerous zone without self-contained breathing apparatus. Use chemical overall and equipment.

· **Additional information**

Cool container with spray water from a safe distance. Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

6.1.1. For non-emergency personnel:

Do not inhale vapours/aerosols. Ensure supply of fresh air in enclosed rooms. Avoid contact with eyes and skin.

6.1.2. For emergency responders:

More info in section 5.

· **6.2 Environmental precautions:** No special measures required.

· **6.3 Methods and material for containment and cleaning up:**

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).
Forward for disposal. Clean up affected area.

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· 6.4 Reference to other sections

See section 7 for information on safe handling. See section 8 for information on personal protective equipment. See section 13 for information on safe disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Before the usage check out sections 2, 6, 8 and 11. Don't breathe aerosols/fumes. Eating, drinking, smoking as well as food storage, is prohibited in work room.

· **Information about fire - and explosion protection:** No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· **Requirements to be met by storerooms and receptacles:**

Protect from frost.

Store only in the original properly sealed and marked containers.

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

Store away from foodstuffs.

Do not store with incompatible materials (see section 10).

· **Further information about storage conditions:** None.

· **7.3 Specific end use(s)** Right usage of product is enclosed in product documentation or on label.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· **Ingredients with limit 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 under EU law (for more information check out the national/local requirements).

· **DNELs (Derived No Effect Level)**

benzyl alcohol

For employees (employees):

DNEL (short-term inhalation exposure, systemic effects) = 110 mg / m³

DNEL (long term inhalation exposure, systemic effects) = 22 mg / m³

DNEL (short-term dermal exposure, systemic effects) = 40 mg / kg body weight / day

DNEL (long term dermal exposure, systemic effects) = 8 mg / kg body weight / day

For the general population:

DNEL (short-term inhalation exposure, systemic effects) = 5.4 mg / m³

DNEL (long term inhalation exposure, systemic effects) = 27 mg / m³

DNEL (short term dermal exposure, systemic effects) = 20 mg / kg body weight / day

DNEL (long term dermal exposure, systemic effects) = 4 mg / kg body weight / day

DNEL (short-term oral exposure, systemic effects) = 4 mg / kg body weight / day

· **PNECs (Predicted No-Effect Concentration)**

benzyl alcohol

PNEC soil = 0.456 mg / kg dried soil

PNEC WWTP (wastewater treatment plant) = 39 mg / l

PNEC sediment = 5.27 mg / kg dried sediment

PNEC sediment (seawater) = 0.527 mg / kg dried sediment

PNEC water (sea) = 0.1 mg / l

PNEC water (regular leaks) = 2.3 mg / l

PNEC water (natural sweet) = 1 mg / l

· 8.2 Exposure controls

· **8.2.1 Appropriate engineering controls:**

No special measures required.

The usual precautionary measures are to be adhered to when handling chemicals.

· **8.2.2 Individual protection measures, such as personal protective equipment:**

· **Respiratory protection:** Not required.

· **Skin protection / Hand protection**



Protective gloves (EN 374).

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- **Material of gloves**

Nitrile rubber, NBR (EN 374).

Recommended thickness of the material: \geq mm

- **Penetration time of glove material**

 \geq 480 min (EN 16523-1).

Glove material must be impermeable and resistant against product / substance / preparation. Gloves material should comply with breakthrough times, permeation rates, and degradation. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

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

- **Eye/face protection**



Wear closely fitting protective glasses with side protection (EN 166) in case of splashes.

- **Skin protection / Other:**



Protective clothing with long sleeves (EN ISO 6529) and safety shoes (EN ISO 20345, EN ISO 20346, or EN ISO 20347).

- **Thermal hazards** Void.

- **8.2.3 Environmental exposure controls**

No special measures required.

Close the packaging properly after and during the work. Store containers stably. Avoid tipping over unsecured packaging. Clean contaminated packaging from contaminant.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Physical state:**

Fluid

- **Colour:**

Transparent

Colourless

- **Odour:**

No further relevant information available.

- **Odour threshold:**

Not determined.

- **Melting point/freezing point:**

Undetermined.

- **Boiling point or initial boiling point and boiling range**

Undetermined.

- **Flammability**

Not applicable.

- **Lower and upper explosion limit**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Flash point:**

Not applicable.

- **Auto-ignition temperature:**

Not determined.

- **Decomposition temperature:**

Not determined.

- **pH**

4.5-7.0

- **Kinematic viscosity**

Not determined.

- **Dynamic:**

Not determined.

- **Solubility**

- **water:**

Soluble.

- **Partition coefficient n-octanol/water (log value)**

Not determined.

- **Vapour pressure:**

Not determined.

- **Density and/or relative density**

- **Absolute density:**

Not determined.

- **Relative vapour density**

Not determined.

- **Particle characteristics**

Void

- **9.2 Other information**

- **Explosive properties:**

Product does not present an explosion hazard.

- **VOC (EC)**

Void.

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· 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	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** See section 10.3.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** See section 7.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
See above section "Possibility of hazardous reactions".
No further relevant information available.
- **10.6 Hazardous decomposition products:** See section 5.

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 relevant for classification:

CAS: 100-51-6 Benzyl alcohol

Oral	LD50	1,230 mg/kg (rat)
Dermal	LD50	2,000.5 mg/kg (rabbit)
Inhalative	LC50/4 h	8.8 mg/l (rat)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
 - **Serious eye damage/irritation:** 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.
 - **Respiratory or skin sensitisation** 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.
-
- **Ingestion responds:**
Ingestion: abdominal discomfort and other negative effects (sickness, nausea etc.). The effects may be immediate, or even later.
 - **Mixtures / mixture versus substance information**
For information on the effect of the mixture, see previous information in section 11.
Information on the possible health effect of the substances in this mixture is given in sections 3 and 16.
 - **Information on likely routes of exposure** See the above information in section 11.

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- **Symptoms related to the physical, chemical and toxicological characteristics**
See the above information in section 11.
 - **Delayed and immediate effects as well as chronic effects from short and long-term exposure**
See the above information in section 11.
 - **Interactive effects** No data available.
 - **Absence of specific data** No data available.
 - **11.2 Information on other hazards**
- | |
|--|
| · Endocrine disrupting properties |
| None of the ingredients is listed. |
- **Other information** See the above information in section 11.

SECTION 12: Ecological information

- **12.1 Toxicity**
- | |
|-------------------------------------|
| · Aquatic toxicity: |
| CAS: 100-51-6 Benzyl alcohol |
| EC50 (48 hod.) 400 mg/l (daphnia) |
- **12.2 Persistence and degradability (in water)**
benzyl alcohol - phenylmethanol: biodegradable at 92-96% / 28 days (OECD 301 C, Ready Biodegradability - Modified MITI Test (I)).
 - **12.3 Bioaccumulative potential**
benzyl alcohol: log Pow = 1.1
Assessment of bioaccumulation potential:
log Pow <1 - bioaccumulation is not expected log Pow = 1-3 - significant bioaccumulation is not expected log Pow >3 - bioaccumulation is possible.
BCF <1000 - substance is not bioaccumulative, BCF 1000 < 5000 - substance is bioaccumulative, BCF >5000 - substance is very bioaccumulative.
 - **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.
 - **12.7 Other adverse effects**
Not classified as hazardous for environment.
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Not hazardous for water.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation**
Hand over the waste only to a person authorized for further waste disposal / processing according to the waste catalog. At compliance with all physico-chemical (and other) aspects of the nature of the waste respect the waste management hierarchy: 1. Prevention, 2. Reuse, 3. Material recovery (recycling), 4. Other uses (eg energy), 5. Disposal (eg landfilling - only for solid or stabilized liquid waste). See section 15 for waste disposal legislation.
 - **European waste catalogue**
Catalogue numbers with an asterisk (*) indicate hazardous wastes (H), numbers without asterisk indicates non-hazardous waste (NH).
- | | |
|----------|---|
| 16 03 06 | organic wastes other than those mentioned in 16 03 05 |
| 15 01 02 | plastic packaging |
| 20 01 39 | plastics |
- **Uncleaned packaging:**
 - **Recommendation:** Dispose as a non hazardous waste.

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SECTION 14: Transport information

· 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR/RID/ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR/RID/ADN, IMDG, IATA · Class	Void -
· ADN/R Class:	Void
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors
- 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.
- European legislation:
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 (CLP), amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (and subsequent amendments and supplements).
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 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (and subsequent amendments and supplements).
COMMISSION REGULATION (EU) No 2020/878 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).
Commission Regulation (EU) 2018/605 of 19 April 2018 amending Annex II to Regulation (EC) No 1107/2009 by setting out scientific criteria for the determination of endocrine disrupting properties.
DIRECTIVE 2008/98/EC OF THE EP AND OF THE COUNCIL on waste and repealing certain Directives (and subsequent amendments and supplements).
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The classification of the mixture was performed according to the calculation methods given in CLP Annex I.

· **Relevant hazard statements and supplemental hazard statements**

H302 Harmful if swallowed.

H332 Harmful if inhaled.

· **Training hints** Workers must be trained in accordance with local provisions.

· **Abbreviations and acronyms:**

ADR: Accord sur le transport des marchandises dangereuses par Route (Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstract Service

CLP – Classification, Labeling and Packaging of substances and mixtures (abbreviation for Regulation 2008/1278/EC)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

EL50: : Effective Loading, 50 %

ErC50 / EC50: value of the effective concentration of the test substance at which 50% of the test organisms die or immobilize

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

IMDG: International Maritime Code for Dangerous Goods

LC50: lethal concentration that causes death in 50% of the test population

LD50: lethal dose that causes death in 50% of the test population (median lethal dose)

LL50: median lethal loading

NLP: No-Longer Polymers

NO(A)EL: dose value without observed adverse effect

NOEC: highest concentration of the substance at which no adverse effects are observed

NOELR: no-observable effect loading rate

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

SDS: Safety Data Sheet

UFI: unique formula identifier (code according related toxicological center can identify the dangerous properties of the substance / mixture from the label after poisoning)

VOC: Volatile Organic Compounds (USA, EU), TOC: Total Organic Compounds

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

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