

Trade name:

Bacteriostatic Water

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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:

ViraChem j.d.o.o.

Savska cesta 42

10000 Zagreb, Croatia

OIB: 73782597071 | MBS: 060500406

E-mail: info@virachemical.com

Web: virachemical.com

Further information obtainable from: info@virachemical.com

1.4 Emergency telephone number

Poisons Centres in Europe (consultation in case of acute intoxication):

<https://poisoncentres.echa.europa.eu/appointed-bodies>

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, it 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 — Harmful if swallowed. | Acute Tox. 4 H332 — Harmful if inhaled. | Concentration: 1.0%

Non-dangerous components

CAS: 7732-18-5

EINECS: 231-791-2

Water: up to 100%

Additional information:

For the wording of the listed hazard statements (H sentences) and supplemental hazard statements (EUH sentences) refer to section 16.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

General information:

Remove contaminated clothing and shoes. In case of any uncertainty or if symptoms occur, seek medical assistance and show this SDS or label. Protect your health. Treatment is symptomatic.

After inhalation:

Under normal circumstances, it is not expected to provide first aid.

Ensure supply 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.

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: Wash out mouth 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 surroundings.

Unsuitable extinguishing agents: Not determined.

5.2 Special hazards arising from the substance or mixture

In heated or fire conditions, harmful gases and vapours may be created. 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.

6.4 Reference to other sections

See section 7 for safe handling. | Section 8 for personal protective equipment. | Section 13 for safe disposal.

SECTION 7 HANDLING AND STORAGE**7.1 Precautions for safe handling**

Before use, check sections 2, 6, 8 and 11. Do not breathe aerosols/fumes. Eating, drinking and smoking, as well as food storage, are prohibited in the work room.

Fire and explosion protection: No special measures required.



7.2 Conditions for safe storage, including any incompatibilities

Storage requirements:

Temperature: Protect from frost.

Store only in the original, properly sealed and marked containers.

Common storage facility:

Store away from foodstuffs.

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

Further 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**

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 national/local requirements).

DNELs (Derived No Effect Level) — Benzyl alcohol

For employees:

DNEL short-term inhalation (systemic): 110 mg/m³DNEL long-term inhalation (systemic): 22 mg/m³

DNEL short-term dermal (systemic): 40 mg/kg body weight/day

DNEL long-term dermal (systemic): 8 mg/kg body weight/day

For the general population:

DNEL short-term inhalation (systemic): 5.4 mg/m³DNEL long-term inhalation (systemic): 27 mg/m³

DNEL short-term dermal (systemic): 20 mg/kg body weight/day

DNEL long-term dermal (systemic): 4 mg/kg body weight/day

DNEL short-term oral (systemic): 4 mg/kg body weight/day

PNECs (Predicted No-Effect Concentration) — Benzyl alcohol

PNEC soil: 0.456 mg/kg dried soil

PNEC WWTP: 39 mg/l

PNEC sediment (freshwater): 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 (fresh): 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 — personal protective equipment:

Respiratory protection: Not required.



Hand protection: Protective gloves (EN 374) — Nitrile rubber, NBR. Penetration time: $\geq$ 480 min (EN 16523-1).
Eye / face protection: Wear closely fitting protective glasses with side protection (EN 166) in case of splashes.
Skin protection: Protective clothing with long sleeves (EN ISO 6529) and safety shoes (EN ISO 20345 / 20346 / 20347).
Thermal hazards: Void.
8.2.3 Environmental exposure controls:
No special measures required. Close packaging properly during and after work. Store containers stably. Avoid tipping over unsecured packaging.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Fluid (liquid)
Colour: Transparent / Colourless
Odour: No further relevant information available.
Odour threshold: Not determined.
Melting point / freezing point: Undetermined.
Boiling point / initial boiling point: Undetermined.
Flammability: Not applicable.
Lower explosion limit: Not determined.
Upper explosion limit: 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 viscosity: Not determined.
Solubility in water: Soluble.
Partition coefficient n-octanol/water (log value): Not determined.
Vapour pressure: Not determined.
Absolute density: Not determined.
Relative vapour density: Not determined.
Particle characteristics: Void
Explosive properties: Product does not present an explosion hazard.
VOC (EC): Void
Evaporation rate: Not determined.
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 emitting flammable gas 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 — Regulation (EC) No 1272/2008

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

LD/LC50 values relevant for classification — Benzyl alcohol (CAS 100-51-6)

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: Abdominal discomfort and other negative effects (nausea, sickness etc.). Effects may be immediate or delayed.

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.
Routes of 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 — Benzyl alcohol (CAS 100-51-6):

EC50 (48 h): 400 mg/l (daphnia)

12.2 Persistence and degradability

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 P_{ow} : 1.1

Assessment: log P_{ow} < 1 — bioaccumulation not expected. BCF < 1000 — substance is not 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 groundwater, water courses or sewage systems, even in small quantities.

Not hazardous for water.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation:

Hand over waste only to a person authorised for waste disposal/processing according to the waste catalogue. Respect the waste management hierarchy: 1. Prevention 2. Reuse 3. Material recovery (recycling) 4. Other uses (e.g. energy) 5. Disposal (e.g. landfilling). See section 15 for waste disposal legislation.

European waste catalogue

16 10 02: Aqueous liquid wastes other than those mentioned in 16 10 01

15 01 02: Plastic packaging

20 01 39: Plastics

Uncleaned packaging

Recommendation: Dispose as non-hazardous waste.



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): 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 (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 — Major-accident hazards involving dangerous substances:

Named dangerous substances — ANNEX I: None of the ingredients is listed.

Regulation (EU) 2019/1148 — Explosives precursors:

Annex I (Restricted): None of the ingredients is listed.

Annex II (Reportable): None of the ingredients is listed.

Regulation (EC) No 273/2004 — Drug precursors: None of the ingredients is listed.

Regulation (EC) No 111/2005 — Drug precursors trade monitoring: None of the ingredients is listed.

European legislation applicable

REGULATION (EC) No 1272/2008 (CLP) — Classification, labelling and packaging of substances and mixtures, and subsequent amendments.

REGULATION (EC) No 1907/2006 (REACH) — Registration, Evaluation, Authorisation and Restriction of Chemicals, and subsequent amendments.

COMMISSION REGULATION (EU) No 2020/878 — Amending Annex II to REACH.

Commission Regulation (EU) 2018/605 — Scientific criteria for endocrine disrupting properties.

DIRECTIVE 2008/98/EC — Waste framework directive, and subsequent amendments.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16** OTHER INFORMATION

This information is based on our present knowledge. It 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: Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging — Regulation 1272/2008/EC



EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
EL50: Effective Loading, 50%
ErC50 / EC50: Effective concentration at which 50% of test organisms die or immobilise
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by IATA
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by ICAO
IMDG: International Maritime Code for Dangerous Goods
LC50: Lethal concentration, 50% of test population
LD50: Lethal dose, 50% of 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 at which no adverse effects are observed
NOELR: No-observable effect loading rate
PBT: Persistent, Bioaccumulative and Toxic
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
SDS: Safety Data Sheet
UFI: Unique Formula Identifier
vPvB: Very Persistent and Very Bioaccumulative
VOC: Volatile Organic Compounds
Acute Tox. 4: Acute toxicity — Category 4