

# SAFETY DATA SHEET

In accordance with 1907/2006 annex II 2015/830 and 1272/2008

(All references to EU regulations and directives are abbreviated into only the numeric term)

Issued 2019-11-21

Version number 1.0

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

### 1.1. Product identifier

Trade name CleanWater, Purify my drinking water

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

Identified uses Disinfectants

### 1.3. Details of the supplier of the safety data sheet

Company BioCool AB  
Box 55626  
102 14 Stockholm  
Sweden  
Telephone +46 (0)910-21 50 70  
E-mail kontakt@biocool.se

### 1.4. Emergency telephone number

Acute cases: Call 112, request poison information.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Acute toxicity (Category 4 oral), H302

Irreversible Eye Effects (Category 1), H318

### 2.2. Label elements

Hazard pictogram



Signal word Danger

Hazard statements  
H302 Harmful if swallowed  
H318 Causes serious eye damage

Precautionary statements  
P101 If medical advice is needed, have product container or label at hand  
P102 Keep out of reach of children  
P270 Do not eat, drink or smoke when using this product  
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  
P310 Immediately call a POISON CENTER  
P501 Dispose of contents and container to authorised waste disposal facility

### Supplemental hazard information

Contains: SODIUM PERCARBONATE

### 2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
<b>SODIUM PERCARBONATE</b>		
CAS No: 15630-89-4 EC No: 239-707-6	Ox Sol 2, Acute Tox <i>4oral</i> , Eye Dam 1; H272, H302, H318	≥65 - <75 %
<b>SODIUM CARBONATE</b>		
CAS No: 497-19-8 EC No: 207-838-8 Index No: 011-005-00-2 REACH: 01-2119485498-19	Eye Irrit 2; H319	<10 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Generally

In case of concern, or if symptoms occur, call a doctor/physician.

#### Upon breathing in

Fresh air and rest. If symptoms persist seek medical advice.

#### Upon eye contact

Remove contact lenses immediately if possible.

Flush immediately with luke-warm water for 15 - 20 minutes with wide-open eyes. Transport the injured person to a hospital immediately.

Important! Also flush during transport to hospital (eye specialist).

#### Upon skin contact

Remove contaminated clothing.

Wash the skin with soap and water.

If symptoms occur, contact a physician.

#### Upon ingestion

Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek medical advice. DO NOT INDUCE VOMITING.

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

#### Upon eye contact

Risk of permanent eye damage.

#### Upon ingestion

Harmful if swallowed.

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

Symptomatic treatment.

Upon contact with a doctor, make sure to have the label or this safety data sheet with you.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

### 5.2. Special hazards arising from the substance or mixture

Oxygen (O<sub>2</sub>) is released during heating.

### 5.3. Advice for fire-fighters

Protective measures should be taken regarding other material at the site of the fire.

In case of fire use a respirator mask.

Wear full protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- Avoid dust formation.
- Do not inhale dust and avoid contact with skin, eyes and clothes when cleaning up spill.
- Keep unauthorized and unprotected people at a safe distance.
- Use recommended safety equipment, see section 8.
- Ensure good ventilation.

### 6.2. Environmental precautions

- Avoid release to drains, soil or watercourses.

### 6.3. Methods and material for containment and cleaning up

- Minor spills can be dried up with a damp cloth.
- Carefully collect the product without generating dust and dispose of at a waste collection point.
- Ensure good ventilation after sanitation.

### 6.4. Reference to other sections

- See section 8 and 13 for personal protection equipment and disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Store this product separately from food items and keep it out of the reach of children and pets.
- Avoid handling in a manner which will raise dust.
- Do not inhale dust and avoid contact with skin and eyes.
- Do not eat, drink or smoke in premises where this product is handled.
- Wash your hands after using the product.
- Remove contaminated clothing.
- Use local extract ventilation or similar ventilation, as dust may be formed.
- Use recommended safety equipment, see section 8.
- Keep away from incompatible products.

### 7.2. Conditions for safe storage, including any incompatibilities

- The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.
- Keep out of reach for children.
- Store separately from food and animal fodder, incl. utensils or surfaces which have been in contact with these things.
- Store only in the original package.
- Store in dry and cool area.
- Store in a ventilated space.
- Do not store close to incompatible materials (see section 10.5).

### 7.3. Specific end uses

- See identified uses in Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National limit values

- All ingredients (cf. Section 3) lack occupational exposure limit values.

**DNEL  
SODIUM PERCARBONATE**

	Type of exposure	Route of exposure	Value
Worker	Acute	Dermal	12.8 mg/cm <sup>2</sup>
	Local		
Worker	Chronic	Inhalation	5 mg/m <sup>3</sup>
	Local		
Consumer	Acute	Dermal	6.4 mg/cm <sup>2</sup>
	Local		

**SODIUM CARBONATE**

	Type of exposure	Route of exposure	Value
Worker	Chronic	Inhalation	10 mg/m <sup>3</sup>
	Local		
Consumer	Acute	Inhalation	10 mg/m <sup>3</sup>
	Local		

**PNEC**

No data available.

**8.2. Exposure controls**

Avoid dust formation.

Wash hands thoroughly after handling and before food intake or smoking.

To prevent occupational risks the health hazards for this product or any of the ingredients should be taken into account (see sections 2, 3 and 11), according to EU Directive 89/391 and 98/24 and national jurisdiction for occupational risks.

**8.2.1. Appropriate engineering controls**

Handle in premises with good ventilation.

Use local extract ventilation or similar ventilation, as dust may be formed.

Eye-rinsing facilities shall be available at the workplace.

**Eye/face protection**

Use protective glasses with tight seals according to standard EN166.

**Skin protection**

Use suitable protective clothing.

During normal use hand protection is not necessary, but it is recommended during repeated/prolonged contact with the product. Recommended glove material: nitrile, butyl or rubber.

**Respiratory protection**

Use proper protective breathing equipment in case of insufficient ventilation.

Particle filter P2/P3 is recommended.

**8.2.3. Environmental exposure controls**

Work with the product should take place in such a way that the product does not get into drains, waterways, soil and air.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

a) Appearance	Form: Tablet. Colour: white.
b) Odour	scentless
c) Odour threshold	Not indicated
d) pH	Not indicated
e) Melting point/freezing point	Not indicated
f) Initial boiling point and boiling range	Not indicated
g) Flash point	Not indicated
h) Evaporation rate	Not indicated
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not indicated
k) Vapour pressure	Not indicated
l) Vapour density	Not indicated
m) Relative density	Not indicated
n) Solubility	Solubility in water: Soluble
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not indicated
q) Decomposition temperature	Not indicated
r) Viscosity	Not indicated
s) Explosive properties	Not applicable
t) Oxidising properties	Not applicable

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

May intensify fire. Oxidising.

Decomposes on heating.

### 10.2. Chemical stability

The product is stable at normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

Upon contact with water, sodium percarbonate dissolves into carbonate and hydrogen peroxide, which in turn decomposes to water and oxygen.

Hydrogenperoxide can react violently upon heating with a reducing agent.

### 10.4. Conditions to avoid

Protect from moisture.

Protect from heat and direct sunlight.

Avoid heating.

### 10.5. Incompatible materials

Contains sodium percarbonate which reacts with: Water, acids and bases, reduction agents, organic material, metal ions (e.g. Mn, Fe, Cu, Ni, Cr, Zn), metal oxides, metal salts.

Avoid contact with combustible or flammable materials.

### 10.6. Hazardous decomposition products

Oxygen.

Hydrogen peroxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Not indicated.

#### Acute toxicity

Harmful if swallowed.

#### SODIUM PERCARBONATE

LD50 rabbit 24h: > 2000 mg/kg Dermal

LD50 rat 24h: 1034 mg/kg Orally

LC50 rat 12h: > 4580 mg/kg Inhalation

#### SODIUM CARBONATE

LD50 rabbit 24h: > 2000 mg/kg Dermal

LD50 rat 24h: 2800 mg/kg Orally

LC50 rat 2h: 2.3 mg/L Inhalation

#### Skin corrosion/irritation

The product is neither corrosive nor irritant.

#### Serious eye damage/irritation

Strong irritant with danger of severe eye injury.

#### Respiratory or skin sensitisation

The criteria for classification cannot be considered fulfilled based on available data.

#### Germ cell mutagenicity

No mutagenic effects have been reported for the substance in this mixture.

#### Carcinogenicity

No carcinogenic effects have been reported for the substances in this product.

#### Reproductive toxicity

No toxic effects to reproduction have been reported for the substances in this mixture.

#### STOT-single exposure

The criteria for classification cannot be considered fulfilled based on available data.

#### STOT-repeated exposure

The criteria for classification cannot be considered fulfilled based on available data.

#### Aspiration hazard

The product is not classified as being toxic for aspiration.

## SECTION 12: Ecological information

### 12.1. Toxicity

Avoid larger spills directly in soil, water and drains.

The product is not classified as hazardous to the environment.

#### SODIUM PERCARBONATE

LC50 fathead minnow (*Pimephales promelas*) 96h: 70.7 mg/L

EC50 Water flea (*Daphnia pulex*) 48h: 4.9 mg/l

#### SODIUM CARBONATE

LC50 Freshwater water flea (*Daphnia magna*) 48h: 265 mg/L

LC50 Bluegill (*Lepomis macrochirus*) 96h: 300 mg/L

LC50 Fish 96h: 1 - 740 mg/L

IC50 Algae 72h: > 2420 mg/L

EC50 Freshwater water flea (*Daphnia magna*) 48h: 227 mg/L

NOEC Freshwater water flea (*Daphnia magna*) 48h: 2 mg/L

### 12.2. Persistence and degradability

The product degrades easily in the natural environment.

### 12.3. Bioaccumulative potential

Neither this product, nor its contents, accumulates in nature.

### 12.4. Mobility in soil

The product is miscible with water and is therefore variable in soil and water.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6. Other adverse effects

No known effects or hazards.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Waste handling of the product

May not be disposed of with household waste.

Avoid larger spills of undiluted product in drains. Smaller quantities of undiluted product can be washed into drains.

Discarded products must be disposed of as hazardous waste in accordance with regulations.

Not completely emptied packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely emptied packaging can be recycled.

Observe local regulations.

See also national waste regulations.

#### Classification according to 2008/98

Recommended LoW-code: 06 13 01 Inorganic plant protection products, wood-preserving agents and other biocides.

## SECTION 14: Transport information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

### 14.1. UN number

Not classified as dangerous goods

### 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

Not applicable

### 14.6. Special precautions for user

Not applicable

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

### 14.8 Other transport information

Not applicable

## SECTION 15: Regulatory information

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

REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products.

### 15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

## SECTION 16: Other information

### 16a. Indication of where changes have been made to the previous version of the safety data sheet

#### Revisions of this document

This is the first version

### 16b. Legend to abbreviations and acronyms used in the safety data sheet

#### Full texts for Hazard Class and Category Code mentioned in section 3

Ox Sol 2	Oxidising solids (Verified Category 2)
Acute Tox 4oral	Acute toxicity (Category 4 oral)
Eye Dam 1	Irreversible Eye Effects (Category 1)
Eye Irrit 2	Irritates eyes (Category 2)

#### Explanations of the abbreviations in Section 14

ADR	European Agreement concerning the International Transport of Dangerous Goods by Road
RID	Regulations concerning the International Transport of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods Code
ICAO	International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
IATA	The International Air Transport Association

### 16c. Key literature references and sources for data

#### Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2019-11-21.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

#### Full texts for Regulations mentioned in this Safety Data Sheet

- 1907/2006 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
- 2015/830 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)
- 1272/2008 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
- 2008/98 DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives
- 1907/2006 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

### 16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.



## **16e. List of relevant hazard statements and/or precautionary statements**

### **Full texts for hazard statements mentioned in section 3**

H272 May intensify fire; oxidiser

H302 Harmful if swallowed

H318 Causes serious eye damage

H319 Causes serious eye irritation

## **16f. Advice on any training appropriate for workers to ensure protection of human health and the environment**

### **Warning for misuse**

This product can cause severe harm if used improperly. Read and follow the directions of use carefully. At professional use the employer is responsible for the staff being well aware of the risks.

### **Other relevant information**

Not indicated

### **Editorial information**



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