

## 1. Product and company identification

### Product identifier

Trade name: Bevi Tab Oxygen

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

General use: Cleaning agent

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

Company name: BeviClean GmbH

Street/POB-No.: Carl-Benz-Straße 5

Postal Code, city: 56218 Mülheim-Kärlich  
Germany

E-mail: info@beviclean.com

Telephone: +49 (0) 2630 / 966 30-0

Telefax: +49 (0) 2630 / 966 30-20

Department responsible for information:

Dirk Bersch, Telephone: +49 (0) 2630 / 966 30-0, info@beviclean.com

### Emergency phone number

**Dirk Bersch, Telephone: +49 (0) 2630 / 966 30-0**

## 2. Hazards identification

### Emergency overview

Appearance: Form: solid, Tablets

Color: white

Odor: odorless

Classification: Skin Irritation - Category 2; Eye Irritation - Category 2A;

Hazard symbols:



Signal word:

**Warning**

Hazard statements:

Causes skin irritation.

Causes serious eye irritation.

Precautionary statements:

Keep out of reach of children.

Do not breathe dust.

Wash hands and face thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water/soap.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Hazards not otherwise classified

May be harmful if swallowed. May intensify fire; oxidiser.  
see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterization: Mixture of the substances listed below with non-hazardous additions

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 497-19-8	Sodium carbonate	25 - 50 %	Eye Irritation - Category 2A.
CAS 77-92-9	Citric acid, anhydrous	10 - 25 %	Eye Irritation - Category 2A.
CAS 15630-89-4	Sodium percarbonate	10 - 15 %	Oxidizing Solid - Category 3. Acute Toxicity - oral - Category 4. Eye Damage - Category 1.
CAS 70693-62-8	Potassium peroxymonosulfate	< 10 %	Corrosive to Metals - Category 1. Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1B. Aquatic toxicity - chronic - Category 3.

Additional information: Contains < 15 % polyethylene glycol (CAS 25322-68-3).  
The maximum workplace exposure limits are, where necessary, listed in section 8.

## 4. First aid measures

In case of inhalation: Provide fresh air. Keep victim calm.  
In case of respiratory difficulties seek medical attention.

Following skin contact: After contact with skin, wash immediately with plenty of water.  
Immediately remove any contaminated clothing, shoes or stockings. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses. Subsequently consult an ophthalmologist.

After swallowing: Never give anything by mouth to an unconscious person. Drink large quantities of water.  
Do not induce vomiting. Seek medical attention.

### Most important symptoms/effects, acute and delayed

In case of inhalation: May cause irritations.  
In case of ingestion: May be harmful if swallowed.  
Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.  
After eye contact: , redness, pain, corneal opacity.

### Information to physician

Treat symptomatically.  
Rinse mouth with water. Product reacts alkaline.

## 5. Fire fighting measures

Flash point/flash point range:

No data available

Auto-ignition temperature: No data available

Suitable extinguishing media:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

Extinguishing media which must not be used for safety reasons:

Full water jet

### Specific hazards arising from the chemical

Fires in the immediate vicinity may cause the development of dangerous vapors. Exceeding 140 °F delamination of oxygen.

In case of fire may be liberated: Sodium compounds, sulphur oxides, phosphorus compounds, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus. Wear appropriate protective equipment.

Additional information:

Cool endangered containers with water spray and, if possible, remove from danger zone. Use a water fog to control vapors. Do not inhale dust or gases/vapors generated by fire.

Product reacts alkaline.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

## 6. Accidental release measures

Personal precautions:

Avoid contact with the substance. Avoid generation of dust. Do not breathe dust. Wear personal protection equipment.

In case of dust formation: Ensure adequate ventilation, especially in confined areas.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains.

Methods for clean-up:

Collect dry and place in appropriate containers for disposal. Subsequent cleaning. To clean the floor and all object contaminated by this material, use water.

## 7. Handling and storage

### Handling

Advices on safe handling: Avoid contact with skin, eyes, and clothing.

Avoid generation of dust. Do not breathe dust. Wear appropriate protective equipment. When using do not eat, drink or smoke.

In case of dust formation: Provide adequate ventilation, and local exhaust as needed.

Precautions against fire and explosion:

Usual measures for fire prevention.

Specific use(s)

Cleaning agent

### Storage

Requirements for storerooms and containers:

Store container tightly closed in a dry and cool place.

Hints on joint storage:

Avoid contact with heavy metals and acids .

Do not store together with highly inflammable or combustible materials.

Keep away from food, drink and animal feedingstuffs.

## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

Type	Limit value
USA: ACGIH: TWA	10 mg/m <sup>3</sup> (Dust limit value, inhalable fraction)
USA: ACGIH: TWA	3 mg/m <sup>3</sup> (Dust limit value, respirable fraction)
USA: OSHA: TWA	15 mg/m <sup>3</sup> (Dust limit value, inhalable fraction)
USA: OSHA: TWA	5 mg/m <sup>3</sup> (Dust limit value, respirable fraction)

### Engineering controls

In the case of the formation of dust: Dust should be exhausted directly at the point of origin.  
See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Wear suitable protective clothing.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Nitrile rubber or butyl caoutchouc (butyl rubber).

Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: In case of dust formation: Dust mask/Particulates filter P2 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations:

Avoid contact with skin, eyes, and clothing. Immediately remove any contaminated clothing, shoes or stockings.

Do not breathe dust. Have eye wash bottle or eye rinse ready at work place.

After work, wash hands and face. When using do not eat, drink or smoke.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:	Form: solid, Tablets Color: white
Odor:	odorless
Odor threshold:	No data available
pH:	at 68 °F, 10 g/L: 9.6
Melting point/freezing point:	> 212 °F
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available

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Water solubility:	at 176 °F: easily soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	Exceeding 140 °F delamination of oxygen.
Additional information:	No data available

## 10. Stability and reactivity

Reactivity:	Product is hygroscopic. Contact with acids liberates carbon dioxide. Product in aqueous solution develops hydrogen peroxide.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reactions known.
Conditions to avoid:	humidity. Excessive heating. Avoid generation of dust.
Incompatible materials:	Avoid contact with heavy metals and acids .
Hazardous decomposition products:	In case of fire may be liberated: Sodium compounds, sulphur oxides, phosphorus compounds, carbon monoxide and carbon dioxide.
Thermal decomposition:	Exceeding 140 °F delamination of oxygen.

## 11. Toxicological information

### Toxicological tests

Toxicological effects:	Acute toxicity (oral): Based on available data, the classification criteria are not met. Information about Sodium percarbonate: LD50 Rat, oral: 1034 - 2000 mg/kg. Information about Potassium peroxymonosulfate: LD50 Rat, oral: 1204 - 2050 mg/kg. Acute toxicity (dermal): Lack of data. Acute toxicity (inhalative): Lack of data. Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation. Serious eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation. Sensitisation to the respiratory tract: Lack of data. Skin sensitisation: Lack of data. Germ cell mutagenicity/Genotoxicity: Lack of data. Carcinogenicity: Lack of data. Reproductive toxicity: Lack of data. Effects on or via lactation: Lack of data. Specific target organ toxicity (single exposure): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data. Aspiration hazard: Lack of data.
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## Symptoms

In case of inhalation: May cause irritations.

In case of ingestion: May be harmful if swallowed.

Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

After eye contact: , redness, pain, corneal opacity.

## 12. Ecological information

### Ecotoxicity

Aquatic toxicity:

Information about Potassium peroxymonosulfate:

Bacterial toxicity:

EC50 *Pseudomonas putida*: 179 mg/L/18h.

Daphnia toxicity:

NOEC *Daphnia magna* (Big water flea): 1.8 mg/L/24h (OECD 202).

LC50 *Daphnia magna* (Big water flea): 5.3 mg/L/24h (OECD 202).

Fish toxicity:

NOEC *Danio rerio* (zebrafish): 32 mg/L/96h (OECD 203).

### Mobility in soil

No data available

### Persistence and degradability

Further details:

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

### Additional ecological information

General information:

Do not allow to enter into ground-water, surface water or drains.

## 13. Disposal considerations

### Product

Recommendation:

Special waste. Dispose of waste according to applicable legislation.

Smaller amounts: Dilute with plenty of water.

### Package

Recommendation:

Rinse with water. Wrap waste as is appropriate for the type of material.

Single packs can be disposed of together with household waste.

## 14. Transport information

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

### Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

### Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

### Environmental hazards

Marine pollutant: no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

### USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

### Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no

### Air transport (IATA)

Proper shipping name: Not restricted

### Further information

No dangerous good in sense of these transport regulations.

## 15. Regulatory information

### National regulations - U.S. Federal Regulations

Sodium carbonate:	TSCA Inventory: listed TSCA HPVC: not listed
Citric acid, anhydrous:	TSCA Inventory: listed TSCA HPVC: not listed
Sodium percarbonate:	TSCA Inventory: listed TSCA HPVC: not listed
Potassium peroxymonosulfate:	TSCA Inventory: listed TSCA HPVC: not listed
Polyethylene glycol 8000:	TSCA Inventory: listed; EPA flags XU TSCA HPVC: not listed

### National regulations - U.S. State Regulations

Sodium percarbonate: New York List of Hazardous Substances:  
TRQ: 10

### National regulations - Great Britain

Hazchem-Code: -

### 16. Other information

**Text for labeling:** Contains 25 - 50 % Sodium carbonate, 10 - 25 % Citric acid, anhydrous, 10 - 15 % Sodium percarbonate, < 10 % Potassium peroxymonosulfate. Safety data sheet available on request.

Contains 15-30% oxygen-based bleaching agents (Sodium percarbonate, Potassium peroxymonosulfate); 5-15% phosphates.

**Hazard rating systems:** NFPA Hazard Rating:



Health: 1 (Slight)

Fire: 0 (Minimal)

Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 0 (Minimal)

Physical Hazard: 1 (Slight)

Personal Protection: X = Consult your supervisor

JT Baker Storage Color Code: Green (General Storage)

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	1
	X

**Abbreviations and acronyms:**

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

AS/NZS: Australian Standards/New Zealand Standards

CAS: Chemical Abstracts Service

CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMEL: Derived minimal effect level

DNEL: Derived no-effect level

EC50: Effective Concentration 50%

EC: European Community

EN: European Standard

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

LC50: Median lethal concentration

LD50: Lethal dose 50%

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

NOEC: No Observed Effect Concentration

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic

PNEC: Predicted no-effect concentration

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

vPvB: Very persistent and very bioaccumulative

**Reason of change:** Changes in section 8: Exposure limit values

**Date of first version:** 11/13/2003

#### Department issuing data sheet

**Contact person:** see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.





**BeviClean**<sup>®</sup>  
WIR MACHEN ALLES KLAR

# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and ANSI standard Z400.1-2010

## Bevi Tab Oxygen

Material number 88.305.010

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Most recent product information is available at:  
<http://sumdat.net/g93m6ixv>

