

## 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

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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: Physical state at 68 °F and 101.3 kPa: solid

Form: 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.

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

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	< 20 %	Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.
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 polyethylene glycol (CAS 25322-68-3).  
The maximum workplace exposure limits are, where necessary, listed in section 8.

### 4. First aid measures

General information: If medical advice is needed, have product container or label at hand.  
Take off contaminated clothing and wash it before reuse.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. 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, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. 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: Not applicable

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 a self-contained breathing apparatus and chemical protective clothing.

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. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

## 6. Accidental release measures

Personal precautions:

Avoid generation of dust. Do not breathe dust. Avoid contact with the substance. If possible, eliminate leakage. Provide adequate ventilation. Wear appropriate protective equipment. Keep unprotected people away. Take off contaminated clothing and wash it before reuse.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. If necessary notify appropriate authorities.

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:

Provide adequate ventilation, and local exhaust as needed. Avoid generation of dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Usual measures for fire prevention.

Specific use(s)

Cleaning agent

### Storage

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place. Keep container dry. Keep only in the original container. Protect from heat and direct sunlight.

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

Provide good ventilation and/or an exhaust system in the work area.

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: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

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

The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.

General hygiene considerations: Avoid generation of dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

## Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

# 9. Physical and chemical properties

## Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: solid Form: 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:	Not applicable
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
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 reaction when handled and stored according to provisions.
Conditions to avoid:	Humidity. Excessive heating. Avoid generation of dust.
Incompatible materials:	Avoid contact with heavy metals and acids .
Hazardous decomposition products:	No decomposition when used properly.
Thermal decomposition:	Exceeding 140 °F delamination of oxygen.

## 11. Toxicological information

### Toxicological tests

Toxicological effects:	The statements are derived from the properties of the single components. No toxicological data is available for the product as such. Acute toxicity (oral): Based on available data, the classification criteria are not met. Information about Sodium percarbonate: LD50 Rat, oral: 1,034 - 2,000 mg/kg. Information about Potassium peroxymonosulfate: LD50 Rat, oral: 1,204 - 2,050 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: No data available

### 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

### UN number

ADR/RID, IMDG, IATA-DGR: not applicable

### 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: TSCA Inventory: listed; EPA flags XU  
TSCA HPVC: not listed

**16. Other information**

Text for labeling: Contains 25 - 50 % Sodium carbonate, < 20 % Citric acid, anhydrous, 10 - 15 % Sodium percarbonate, < 10 % Potassium peroxymonosulfate. Safety data sheet available on request.

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:

- Acute Toxicity: Acute toxicity
- 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
- Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
- AS/NZS: Australian Standards/New Zealand Standards
- CAS: Chemical Abstracts Service
- CFR: Code of Federal Regulations
- CLP: Classification, Labelling and Packaging
- Corrosive to Metals: Corrosive to metals
- DMEL: Derived minimal effect level
- DNEL: Derived no-effect level
- EC: European Community
- EC50: Effective Concentration 50%
- EN: European Standard
- EQ: Excepted quantities
- Eye Damage: Eye damage
- Eye Irritation: Eye irritation
- IATA: International Air Transport Association
- IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
- 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
- OEL: Occupational Exposure Limit Value
- OSHA: Occupational Safety and Health Administration
- Oxidizing Solid: Oxidising solids
- PBT: Persistent, bioaccumulative and toxic
- PNEC: Predicted no-effect concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
- Skin Corrosion: Skin corrosion
- Skin Irritation: Skin irritation
- STOT SE: Specific target organ toxicity - single exposure
- TLV: Threshold Limit Value
- TRGS: Technical Rules for Hazardous Substances
- vPvB: Very persistent and very bioaccumulative
- WEL: Workplace Exposure Limit

Reason of change: Changes in section 2: Classification, labeling  
Changes in section 3: Composition/information on ingredients

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.

Most recent product information is available at  
<http://sumdat.net/g93m6ix>

