

1. Product and company identification

Product identifier

Trade name: Bevi Tab Cool

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

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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 up to weak bluish

Odor: odorless

Classification: Skin Irritation - Category 2. Eye Damage - Category 1.
Specific Target Organ Toxicity (Single Exposure) - Category 3.

Hazard symbols:



Signal word:

Danger

Hazard statements:

Causes skin irritation.
Causes serious eye damage.
May cause respiratory irritation.

Precautionary statements:

Keep out of reach of children.
Avoid breathing dust.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Store locked up.

Regulatory status

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

Hazards not otherwise classified

Contains Sodium percarbonate: May intensify fire; oxidiser.

Contains phosphates. May contribute to the eutrophication of water supplies.

see section 11: Toxicological information

3. Composition / Information on ingredients

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

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 497-19-8	Sodium carbonate	15 - 30 %	Eye Irritation - Category 2A.
CAS 77-92-9	Citric acid, anhydrous	15 - 30 %	Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 15630-89-4	Sodium percarbonate	10 - 25 %	Oxidizing Solid - Category 3. Acute Toxicity - oral - Category 4. Eye Damage - Category 1.
CAS 70693-62-8	Potassium peroxymonosulfate	< 15 %	Corrosive to Metals - Category 1. Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1B. Aquatic toxicity - chronic - Category 3.
CAS 7758-99-8	Copper sulphate	< 0.25 %	Acute Toxicity - oral - Category 4. Eye Damage - Category 1. Aquatic toxicity - acute - Category 1 (M-factor = 10). Aquatic toxicity - chronic - Category 1 (M-factor = 1).

Additional information: Contains polyethylene glycol.

The maximum workplace exposure limits are, where necessary, listed in section 8.

4. First aid measures

General information:	First aider: Pay attention to self-protection! 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 seek the immediate attention of 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: Inhalation of dust may cause irritation of the respiratory system.

In case of ingestion: May be harmful if swallowed.

After contact with skin: Frequent or prolonged skin contact may cause irritation and inflammation.

After eye contact: Dust contact with the eyes can lead to mechanical irritation.

Other symptoms: Redness, pain, corneal opacity.

Information to physician

Treat symptomatically.

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.

In case of fire may be liberated: Sodium compounds, 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 water spray jet to knock down vapors. Do not breathe fumes. 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 breathing 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:

Avoid generation of dust. Collect dry and place in appropriate containers for disposal.
Subsequent cleaning. Wash spill area with plenty of water.

7. Handling and storage

Handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Avoid generation of dust. Avoid breathing 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.
Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Usual measures for fire prevention.

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:

Keep away from strong acids and strong bases. Do not store together with highly inflammable or combustible materials. Keep away from food and drinks.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
	Bevi Tab Cool	USA: ACGIH: TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
		USA: ACGIH: TWA	3 mg/m ³ (Dust limit value, respirable fraction)
		USA: OSHA: TWA	15 mg/m ³ (Dust limit value, total dust)
		USA: OSHA: TWA	5 mg/m ³ (Dust limit value, respirable fraction)
7758-99-8	Copper sulphate	USA: ACGIH: TWA	0.2 mg/m ³ (Smoke)
		USA: ACGIH: TWA	1 mg/m ³ (Dusts and mist calculated as Cu)
		USA: IDLH: TWA	100 Cu/m ³ (dust and mist)
		USA: IDLH: TWA	100 Cu/m ³ (Smoke)
		USA: NIOSH: TWA	1 mg/m ³
		USA: OSHA: TWA	0.1 mg/m ³ (Smoke; calculated as Cu)
		USA: OSHA: TWA	1 mg/m ³ (Dusts and mist calculated as Cu)

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).

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. Avoid breathing dust. Do not get in eyes, on skin, or on clothing. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Work place should be equipped with a shower and an eye rinsing apparatus.

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 up to weak bluish
Odor:	odorless
Odor threshold:	No data available
pH:	at 68 °F, 10 g/L: 6 - 7
Melting point/freezing point:	No data available
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:	soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Additional information:	No data available

10. Stability and reactivity

Reactivity:	Product is hygroscopic. 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:	Protect from moisture contamination. Excessive heating. Avoid generation of dust.
Incompatible materials:	Strong acids and strong bases.
Hazardous decomposition products:	No decomposition when used properly.
Thermal decomposition:	No data available

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.
ATEmix (calculated): ATE > 2,000.

Information about Potassium peroxymonosulfate:
LD50 Rat, oral: 1,000 - 2,000 mg/kg.
Harmful if swallowed.

Information about Sodium percarbonate:
LD50 Rat, oral: 1,034 - 2,000 mg/kg.
Harmful if swallowed.

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 Damage - Category 1 = Causes serious eye damage.
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): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause respiratory irritation.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Lack of data.

Symptoms

In case of inhalation: Inhalation of dust may cause irritation of the respiratory system.
In case of ingestion: May be harmful if swallowed.
After contact with skin: Frequent or prolonged skin contact may cause irritation and inflammation.
After eye contact: Dust contact with the eyes can lead to mechanical irritation.
Other symptoms: Redness, pain, corneal opacity.

12. Ecological information

Ecotoxicity

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

Contains phosphonates. May contribute to the eutrophication of water supplies.

Information about Potassium peroxymonosulfate:

Algae toxicity:

NOEC *Pseudokirchneriella subcapitata* (green algae): 0.5 mg/L/72h (OECD 201)ErC50 *Pseudokirchneriella subcapitata* (green algae): > 1 mg/L/72h (OECD 201)

Daphnia toxicity:

NOEC *Daphnia magna* (Big water flea): 2.5 mg/L/48h (OECD 202).EC50 *Daphnia magna* (Big water flea): 3.5 mg/L/48h (OECD 202).

Fish toxicity:

NOEC *Oncorhynchus mykiss*: 27 mg/L/96h (OECD 203).LC50 *Oncorhynchus mykiss*: 53 mg/L/96h (OECD 203)

Information about Copper sulphate:

Very toxic to aquatic life. M-Faktor= 10

Daphnia toxicity:

EC50 *Daphnia magna* (Big water flea): 0.02 mg/L/48h.

Fish toxicity:

LC50 *Oncorhynchus mykiss*: 0.11 mg/L/96h.

Source: Ecotox Database

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:

Dispose of waste according to applicable legislation.

Smaller quantities can be disposed of with household waste. 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. Non-contaminated packages may be recycled.

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

Copper sulphate: TSCA: not listed
 Copper sulphate anhydrous / CAS 7758-98-7: listed

16. Other information

Text for labeling: Contains 15 - 30 % Sodium carbonate, 15 - 30 % Citric acid, anhydrous, 10 - 25 % Sodium percarbonate, < 15 % Potassium peroxymonosulfate, < 0.25 % Copper sulphate.

Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 0 (Minimal)

Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 2 (Moderate)

Flammability: 0 (Minimal)

Physical Hazard: 1 (Slight)

Personal Protection: X = Consult your supervisor

JT Baker Storage Color Code: Green (General Storage)

HEALTH	2
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 - acute: Hazardous to the aquatic environment - acute
- Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic
- AS/NZS: Australian Standards/New Zealand Standards
- ATE: Acute toxicity estimate
- 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
- M-factor: Multiplication factor
- 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 1.3: Department responsible for information

Date of first version: 10/17/2014

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/g1tya84g>

