

1. Product and company identification

Product identifier

Trade name: Bevi Tab alkalisch

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

General use: Tablettts for cleaning and disinfection for Bevi-systems.

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, powdery, tablet

Color: blue-gray

Odor: weak chlorine odor

Classification: Skin Irritation - Category 2; Eye Damage - Category 1; Aquatic toxicity - chronic - Category 2;

Hazard symbols:



Signal word: **Danger**

Hazard statements: Causes skin irritation.

Causes serious eye damage.

Toxic to aquatic life with long lasting effects.

Precautionary statements:

Keep out of reach of children.

Wash hands and face thoroughly after handling.

Avoid release to the environment.

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.

Immediately call a POISON CENTER/doctor.

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.

Reacts with acids with development of heat and formation of chlorine gas.

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 | 50 - 75 % | Eye Irritation - Category 2A. |
| CAS 22042-96-2 | [[(Phosphonomethyl) imino]bis[(ethylenenitrilo)bis (methylene)]] tetrakisphosphonic acid, sodium salt | < 10 % | Skin Irritation - Category 2. Eye Irritation - Category 2A. |
| CAS 2893-78-9 | Troclosene sodium, anhydrous | < 5 % | Oxidizing Solid - Category 2. Acute Toxicity - oral - Category 4. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aquatic toxicity - acute - Category 1 (M-factor = 1). Aquatic toxicity - chronic - Category 1 (M-factor = 1). |
| CAS 68411-30-3 | Sodium alkylbenzene sulfonate | < 5 % | Acute Toxicity - oral - Category 4. Skin Irritation - Category 2. Eye Damage - Category 1. Aquatic toxicity - chronic - Category 3. |
| CAS 10294-56-1 | Phosphoric acid | < 0.5 % | Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1A. |

Additional information: Contains Polyethylene glycol. The maximum workplace exposure limits are, where necessary, listed in section 8.

4. First aid measures

In case of inhalation: In case of dust formation: Provide fresh air. In case of respiratory difficulties seek medical attention.

If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen.

Following skin contact: After contact with skin, wash with soap and plenty of water. In case of skin irritation, consult a physician.

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

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water. Repeatedly drink water. Do not induce vomiting. Consult doctor afterwards.

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

Information to physician

Treat symptomatically.

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.

In case of fire may be liberated: hydrogen chloride, nitrous fumes, sulphur oxides, 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 breathe fumes. Fire water 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 skin and eyes. Avoid generation of dust. Do not breathe dust.

In case of prolonged exposure: Wear gloves and safety glasses.

In the case of the formation of dust: Respiratory protection mask with adequate filter.

Provide adequate ventilation.

Environmental precautions:

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

In case of release, notify competent authorities.

Methods for clean-up:

Avoid generation of dust.

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 and eyes. In case of prolonged exposure: Wear gloves and safety glasses. Wash hands thoroughly after handling. 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:

Take standard precautions to prevent fire.

Storage

Requirements for storerooms and containers:

Store container tightly closed in a dry and cool place.

Hints on joint storage:

Keep away from acids. Keep/Store away from combustible materials.

Further details:

Reacts with acids with development of heat and formation of chlorine gas. Product is hygroscopic.

8. Exposure controls / personal protection

Engineering controls

Provide adequate ventilation, and local exhaust as needed. 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:

In case of prolonged exposure: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection:

In case of prolonged exposure:

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

Glove material: Nitrile rubber-Layer thickness: 0.11 mm.

Breakthrough time: >480 min.

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

Respiratory protection:

In case of dust formation: Half mask with particle filter P2/P3 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations:

Avoid contact with skin and eyes. Change contaminated clothing. Do not breathe dust.

Have eye wash bottle or eye rinse ready at work place. Wash hands before breaks and after work. When using do not eat or drink.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:

Form: solid, powdery, tablet

Color: blue-gray

Odor:

weak chlorine odor

Odor threshold:

No data available

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|--|--|
| pH: | at 68 °F, 10 g/L: 10.6 |
| Melting point/freezing point: | > 122 °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: | at 68 °F: ≤ 0.1 hPa |
| Vapor density: | No data available |
| Density: | No data available |
| Water solubility: | at 122 °F: 200 - 220 g/cm ³ |
| Partition coefficient: n-octanol/water: | No data available |
| Auto-ignition temperature: | No data available |
| Thermal decomposition: | No data available |
| Bulk density: | 1000 - 1100 kg/m ³ |

10. Stability and reactivity

| | |
|-------------------------------------|--|
| Reactivity: | Product is hygroscopic. |
| Chemical stability: | Stable under recommended storage conditions. |
| Possibility of hazardous reactions: | Reacts with acids with development of heat and formation of chlorine gas. |
| Conditions to avoid: | Excessive heating, humidity. |
| Incompatible materials: | Acids |
| Hazardous decomposition products: | In case of fire may be liberated: hydrogen chloride, nitrous fumes,, sulphur oxides, Carbon monoxide and carbon dioxide. |
| Thermal decomposition: | No data available |

11. Toxicological information

Toxicological tests

Toxicological effects: Acute toxicity (oral): Lack of data.
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): Lack of data.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Lack of data.

Other information: Information about Trocloses sodium:
LD50 Rat, oral: 735 - 1823 mg/kg.
Source: IUCLID.
Information about Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
LD50 Rat, oral 650 mg/kg.
Source: IUCLID.

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

12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.
Information about Trocloses sodium:
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 0.18 - 0.21 mg/L/48h.
LC50 Daphnia magna (Big water flea): 0,28 mg/L/48h.
Fish toxicity:
LC50 Lepomis macrochirus (bluegill): 0.28 - 0.46 mg/L/96h.
LC50 Salmo gairdneri: 0.13 - 0.22 mg/L/96h.
Source: IUCLID.

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.

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:

UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Troclosene sodium)

Transport hazard class(es)

ADR/RID: Class 9, Code: M7

IMDG: Class 9, Subrisk -

IATA-DGR: Class 9



Packing group

ADR/RID, IMDG, IATA-DGR:

III



Environmental hazards

Marine pollutant: yes

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

No data available

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USA: Department of Transportation (DOT)

Identification number: UN3077
Proper shipping name: UN 3077,
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S. (Troclosene sodium)
Hazard class or Division: 9
Packing Group: III
Labels: 9
Symbols: G
Special provisions: 8, 146, 335, 384, A112, B54, B120, IB8, IP3, N20, N91, T1,
TP33
Packaging – Exceptions: 155
Packaging – Non-bulk: 213
Packaging – Bulk: 240
Quantity limitations – Passenger aircraft / rail: No limit
Quantity limitations – Cargo only: No limit
Vessel stowage – Location: A



Sea transport (IMDG)

UN number: UN 3077
Proper shipping name: UN 3077,
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Troclosene sodium)
Class or division, Subsidiary risk: Class 9, Subrisk -
III
Packing Group: III
EmS: F-A, S-F
Special provisions: 274, 335, 966, 967, 969
Limited quantities: 5 kg
Excepted quantities: E1
Package - Instructions: P002, LP02
Package - Provisions: PP12
IBC - Instructions: IBC08
IBC - Provisions: B3
Tank instructions - IMO: -
Tank instructions - UN: T1, BK2, BK2, BK3
Tank instructions - Provisions: TP33
Stowage and handling: Category A. SW23
Properties and observations: -
Marine pollutant: yes
Segregation group: none

Air transport (IATA)

| | |
|---|---|
| UN/ID number: | UN 3077 |
| Proper shipping name: | UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Troclosene sodium) |
| Class or division, Subsidiary risk: | Class 9 |
| Packing Group: | III |
| Hazard label: | Miscellaneous & Environmentally hazardous |
| Excepted Quantity Code: | E1 |
| Passenger and Cargo Aircraft: Ltd.Qty.: | Pack.Instr. Y956 - Max. Net Qty/Pkg. 30 kg G |
| Passenger and Cargo Aircraft: | Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg |
| Cargo Aircraft only: | Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg |
| Special provisions: | A97 A158 A179 A197 A215 |
| Emergency Response Guide-Code (ERG): | 9L |

15. Regulatory information

National regulations - U.S. Federal Regulations

| | |
|--|---|
| Sodium carbonate: | TSCA Inventory: listed TSCA HPVC: not listed |
| Polyethylene glycol 8000: | TSCA Inventory: listed; EPA flags XU TSCA HPVC: not listed |
| [[[(Phosphonomethyl)imino]bis[(ethylenenitrilo)bis(methylene)]] tetrakisphosphonic acid, sodium salt: | TSCA Inventory: listed TSCA HPVC: not listed |
| Troclosene sodium, anhydrous: | TSCA Inventory: listed TSCA HPVC: not listed |
| Sodium alkylbenzene sulfonate: | TSCA: listed - UVCB |
| Phosphoric acid: | TSCA Inventory: listed TSCA HPVC: not listed |

National regulations - U.S. State Regulations

| | |
|-------------------------------|---|
| Troclosene sodium, anhydrous: | Massachusetts Haz. Substance codes: 5 Pennsylvania Haz. Substance code: - |
|-------------------------------|---|

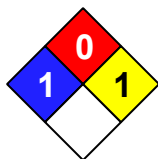
National regulations - Great Britain

Hazchem-Code: 2Z

16. Other information

Text for labeling: Contains 50 - 75 % Sodium carbonate, < 10 %
[[[(Phosphonomethyl)imino]bis[(ethylenenitrilo)bis(methylene)]]tetrakisphosphonic acid,
sodium salt, < 5 % Troclosene sodium, anhydrous, < 5 % Sodium alkylbenzene
sulfonate, < 0.5 % Phosphoric acid. Safety data sheet available on request.
disinfectants:
Content of active ingredients 0,04 g/g Troclosene sodium.
Registration number according to "Biozid-Meldeverordnung": N-30539.
Use biocides safely. Always read the label and product information before use.
Contains < 5% anionic surfactants and 5-15% phosphonates.

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

M-factor: Multiplication factor

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

STOT SE: Specific target organ toxicity - single exposure

UN: United Nations

vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 2: Text for labeling

Date of first version: 8/17/2003

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/9dksivgp>

