

1. Product and company identification

Product identifier

Trade name: Bevi Tabs sauer

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

General use: Cleaning agent for beer pipes.

Details of the supplier of the safety data sheet

Company name: BeviClean GmbH
Street/POB-No.: Carl-Benz-Straße 5
Postal Code, city: DE-56218 Mülheim-Kärlich
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, tablet
Color: red

Odor: pungent

Classification: Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1.
Aquatic toxicity - chronic - Category 3.

Hazard symbols:



Signal word:

Warning

Hazard statements:

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful to aquatic life with long lasting effects.

Precautionary statements:

Keep out of reach of children.
Avoid release to the environment.
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 or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

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

Hazards not otherwise classified

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 5329-14-6	Amidosulfone acid	< 90 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Aquatic toxicity - chronic - Category 3.
CAS 110-16-7	Maleic acid	< 20 %	Acute Toxicity - oral - Category 4. Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Specific Target Organ Toxicity (Single Exposure) - Category 3.

4. First aid measures

General information: If victim is at risk of losing consciousness, position and transport on their side.

In case of inhalation: Provide fresh air. Put victim at rest.
If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. Seek medical attention.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water.
Change contaminated clothing. 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.
Rinse mouth with water. Drink large quantities of water.
Do not induce vomiting. Seek medical attention.

Most important symptoms/effects, acute and delayed

In case of inhalation:
dust: Mucous membrane irritation, cough, shortage of breath. Pulmonary edema is possible.
Symptoms may occur with delay.

In case of ingestion:
Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Information to physician

Treat symptomatically.
Product reacts acidic.

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.

Specific hazards arising from the chemical

Product is non-combustible.
Fires in the immediate vicinity may cause the development of dangerous vapors.
In case of fire may be liberated: sulphur oxides, nitrogen oxides (NOx), 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 breathe fumes.
Do not allow fire water to penetrate into surface or ground water. Fire water becomes acidic.

6. Accidental release measures

Personal precautions:	Avoid contact with skin, eyes, and clothing. Avoid generation of dust. Do not breathe dust. Wear personal protection equipment. Provide adequate ventilation.
Environmental precautions:	Do not allow to penetrate into soil, waterbodies 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. Use soda or another alkaline detergent for removal of residues.

7. Handling and storage

Handling

Advices on safe handling:	Whenever possible use closed equipment with this product. Provide adequate ventilation. 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. When diluting, always add the product to water. Never add water to the product.
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Storage

Requirements for storerooms and containers:	Keep container tightly closed and dry. Store at room temperature.
Hints on joint storage:	Avoid contact with metals. 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 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, inhalable fraction)
USA: OSHA: TWA	5 mg/m ³ (Dust limit value, respirable fraction)

Engineering controls

Use acid resistant materials and devices.
Inspect electric installations more frequently for corrosion damage.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection:	Tightly sealed safety glasses according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2003.
Skin protection:	Wear suitable protective clothing. Chemically resistant 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: With the formation of dust, use a dust mask.
Possible alternatives: filtering device (full mask or mouthpiece) with filter B-P2 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations: Avoid contact with skin, eyes, and clothing. Change contaminated clothing.
Do not breathe dust. Wear appropriate protective equipment.
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.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties**Information on basic physical and chemical properties**

Appearance: Form: solid, tablet
Color: red

Odor: pungent

Odor threshold: No data available

pH: at 68 °F, 10 g/L: ≤ 2

Melting point/freezing point: > 302 °F

Initial boiling point and boiling range: > 374 °F

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

Water solubility: at 68 °F: easily soluble

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Thermal decomposition: > 190 °C

Additional information: No data available

10. Stability and reactivity

Reactivity: May be corrosive to metals.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions:
At high temperatures, will react with alkali nitrites and nitrates as well as with other metal nitrates in explosive fashion and develop nitrogen.
The product develops hydrogen in an aqueous solution in contact with metals.
Reacts with alkalis with development of heat.

Conditions to avoid: Keep away from heat. Avoid generation of dust.

Incompatible materials: halogens, bases, oxidizing agents (nitrates, nitrites, nitric acid), metals with water.

Hazardous decomposition products:
In case of fire may be liberated: sulphur oxides, nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

Thermal decomposition: > 190 °C

11. Toxicological information

Toxicological tests

Acute toxicity:	LD50 Rat, oral: > 3000 mg/kg LDLo Rat, intraperitoneal: > 90 mg/kg
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 Irritation - Category 2A = Causes serious eye irritation. Sensitisation to the respiratory tract: Lack of data. Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction. 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 maleic acid: LD50 Rat, oral 708 mg/kg

Symptoms

In case of inhalation:
dust: Mucous membrane irritation, cough, shortage of breath. Pulmonary edema is possible.
Symptoms may occur with delay.
In case of ingestion:
Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

12. Ecological information

Ecotoxicity

Aquatic toxicity:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful effects on water organisms by modification of pH-value.
Effects in sewage plants:	Before discharge into sewage plants the product normally needs to be neutralised.

Mobility in soil

No data available

Persistence and degradability

Further details:	No data available
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Additional ecological information

General information:	Do not allow to enter into ground-water, surface water or drains.
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13. Disposal considerations

Product

Recommendation:	Special waste. Dispose of waste according to applicable legislation.
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Package

Recommendation: Dispose of waste according to applicable legislation.

14. Transport information

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: UN 2967, SULPHAMIC ACID

Transport hazard class(es)

ADR/RID: Class 8, Code: C2

IMDG: Class 8, Subrisk -

IATA-DGR: Class 8


Packing group

ADR/RID: III

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)

Identification number: UN2967
Proper shipping name: UN 2967, SULFAMIC ACID
Hazard class or Division: 8
Labels: 8
Special Provisions: IB8, IP3, T1, TP33
Packaging – Exceptions: 154
Packaging – Non-bulk: 213
Packaging – Bulk: 240
Quantity limitations – Passenger aircraft / rail: 25 kg
Quantity limitations – Cargo only: 100 kg
Vessel stowage – Location: A
Vessel stowage – Other: 53, 58


Sea transport (IMDG)

UN number: UN 2967
Proper shipping name: UN 2967, SULPHAMIC ACID
Class or division, Subsidiary risk: Class 8, Subrisk -
EmS: F-A, S-B
Special Provisions: -
Limited quantities: 5 kg
Excepted quantities: E1
Package - Instructions: P002, LP02
Package - Provisions: -
IBC - Instructions: IBC08
IBC - Provisions: B3
Tank instructions - IMO: -
Tank instructions - UN: T1
Tank instructions - Provisions: TP33
Stowage and handling: Category A.
Segregation: SG36 SG49
Properties and observations: White crystalline powder. Soluble in water. Decomposes when heated, evolving toxic fumes. Causes burns to skin, eyes and mucous membranes.
Marine pollutant: no
Segregation group: 1

Air transport (IATA)

UN/ID number: UN 2967
Proper shipping name: UN 2967, SULPHAMIC ACID
Class or division, Subsidiary risk: Class 8
Hazard label: Corrosive
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y845 - Max. Net Qty/Pkg. 5 kg
Passenger and Cargo Aircraft: Pack.Instr. 860 - Max. Net Qty/Pkg. 25 kg
Cargo Aircraft only: Pack.Instr. 864 - Max. Net Qty/Pkg. 100 kg
Special Provisions: A803
Emergency Response Guide-Code (ERG): 8L

15. Regulatory information**National regulations - U.S. Federal Regulations**

Product: Sara Title III:
- Section 302 Extremely Hazardous Substances:
None
- Section 313 Toxic Chemicals: None
Amidosulfone acid: TSCA Inventory: listed
TSCA HPVC: not listed
Maleic acid: TSCA Inventory: listed
TSCA HPVC: not listed

National regulations - U.S. State Regulations

Sulfamic acid is on the New Jersey list.
California Proposition 65 Status: This product does not contain chemicals currently on the California list of known carcinogens and/or reproductive toxins.

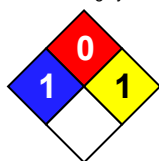
National regulations - Great Britain

Hazchem-Code: 2X

16. Other information

Text for labeling: Contains < 90 % Amidosulfone acid, < 20 % Maleic acid. Safety data sheet available on request.
Contains Maleic acid. May produce an allergic reaction.

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

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
- CAS: Chemical Abstracts Service
- CFR: Code of Federal Regulations
- CLP: Classification, Labelling and Packaging
- DMEL: Derived minimal effect level
- DNEL: Derived no-effect level
- EC: European Community
- EQ: Excepted quantities
- 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
- LD50: Lethal dose 50%
- MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
- 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
- Sensitization - skin: Skin sensitisation
- Skin Irritation: Skin irritation
- STOT SE: Specific target organ toxicity - single exposure
- TRGS: Technical Rules for Hazardous Substances
- UN: United Nations
- vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 2: Labeling (P-phrases, ATP8)

Date of first version: 8/14/2003

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/nzinsf2>

