

Trade name: Benzethonii chloridum

Substance number: 061695

Version: 6 / CH

Date revised: 17.12.2018

Replaces Version: 5 / CH

Print date: 01.10.19

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Benzethonii chloridum

Item No. 06169500

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

Use of the substance/preparation

Preservative, active substance for cosmetic products, Active pharmaceutical substance

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

Skin Corr. 1B H314

Aquatic Acute 1 H400

Acute Tox. 4 H312

Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

H312

Harmful in contact with skin.

H400

Very toxic to aquatic life.

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Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P501.3	Disposal in compliance with local and national regulations.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains benzododecinium chloride; miristalkonium chloride; cetalkonium chloride

SECTION 3: Composition/information on ingredients**Hazardous ingredients****benzododecinium chloride**

CAS No.	139-07-1
EINECS no.	205-351-5
Concentration	>= 50 < 55 %
Classification (Regulation (EC) No. 1272/2008)	
	Acute Tox. 4 H302
	Acute Tox. 4 H312
	Skin Corr. 1B H314
	Aquatic Acute 1 H400

miristalkonium chloride

CAS No.	139-08-2
EINECS no.	205-352-0
Concentration	>= 10 < 22 %
Classification (Regulation (EC) No. 1272/2008)	
	Acute Tox. 4 H302
	Acute Tox. 4 H312
	Skin Corr. 1B H314
	Aquatic Acute 1 H400

cetalkonium chloride

CAS No.	122-18-9
EINECS no.	204-526-3
Concentration	>= 10 < 22 %
Classification (Regulation (EC) No. 1272/2008)	
	Acute Tox. 4 H302
	Acute Tox. 4 H312
	Skin Corr. 1B H314
	Aquatic Acute 1 H400

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid

After inhalation

Ensure supply of fresh air. Summon a doctor immediately. Irregular breathing/no breathing: artificial

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respiration.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely. Wash off immediately with soap and water and rinse well. Summon a doctor immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

Summon a doctor immediately. Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Causes very strong irritations of the eyes, skin and mucous membranes.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Foam, Water spray jet, Dry powder

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

Other information

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Refer to protective measures listed in Sections 7 and 8. Respiratory protection. Use personal protective clothing.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with skin and eyes.

Advice on protection against fire and explosion

Avoid dust formation. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities**Further information on storage conditions**

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

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SECTION 8: Exposure controls/personal protection

8.2. Exposure controls

General protective and hygiene measures

Wash hands before breaks and after work. Avoid contact with skin and eyes. Remove contaminated, soaked clothing immediately and dispose of safely.

Respiratory protection

Breathing apparatus in the event of aerosol. Particle filter half mask, filter P2

Hand protection

Protective gloves

Appropriate Material nitrile rubber - NBR

Breakthrough time > 480 min

Eye protection

Tightly fitting safety glasses

Body protection

Protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	solid		
Colour	white to light yellow		
pH value			
Value	5	to	6
Concentration/H ₂ O	15	g/l	
Melting point			
Value	40		°C
Initial boiling point and boiling range			
Remarks	Not applicable		
Flash point			
Value			°C
Remarks	Not applicable		
Vapour pressure			
Remarks	Not applicable		
Solubility in water			
Remarks	soluble		
Decomposition temperature			
Value	150	to	300 °C
Efflux time			
Remarks	Not applicable		

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

No hazardous reactions known. No decomposition if stored and applied as directed.

10.5. Incompatible materials

Strong oxidising agents

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	71.967	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)

benzododecinium chloride

Species	rat	
LD50	400	mg/kg
Source	GESTIS-Stoffdatenbank	

miristalkonium chloride

Species	mouse	
LD50	18	mg/kg
Source	Intravenös verabreicht	

Acute dermal toxicity

ATE	1'134.02 06	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Sensitization

Species	guinea pig
Method	OECD 406
Remarks	No sensitisation effect known.

Mutagenicity

Species evaluation	Salmonella typhimurium
Method	No mutagenicity in the Ames-test.
Method	OECD 471
Species evaluation	Escherichia coli
Method	No mutagenicity in the Ames-test.
Method	OECD 471
Species evaluation	Human
Method	No experimental information on genotoxicity in vitro available.
Method	OECD 473

SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity

Species	rainbow trout (Oncorhynchus mykiss)
LC50	1.15 mg/l
Duration of exposure	96 h
Method	OECD 203
Remarks	Toxic for fishes.

Daphnia toxicity

Species	Daphnia magna
EC50	0.220 mg/l
Duration of exposure	48 h
Method	OECD 202
Remarks	Immobilization

Algae toxicity

Species	Selenastrum capricornutum
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EbC50	0.12		mg/l
Duration of exposure	72	h	

Bacteria toxicity

Species	activated sludge		
EC50	35.7		mg/l
Duration of exposure	3	h	
Method	OECD 209		

12.2. Persistence and degradability**Biodegradability**

Duration of test	28	d	
evaluation	not readily degradable		
Method	OECD 301		

12.6. Other adverse effects**Behaviour in environment compartments**

Adsorption/ ground: high mobile

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	3261	3261	3261
14.2. UN proper shipping name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (benzododecinium chloride, cetalkonium chloride)	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (benzododecinium chloride, cetalkonium chloride)	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (benzododecinium chloride, cetalkonium chloride)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 kg		
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 3

Remarks Classification according to Annex 4 VwVwS

National regulations Switzerland

Swiss Toxicity Class 2

SECTION 16: Other information

Hazard statements listed in Chapter 3

H302 Harmful if swallowed.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H400 Very toxic to aquatic life.

CLP categories listed in Chapter 3

Acute Tox. 4 Acute toxicity, Category 4

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Aquatic Acute 1
Skin Corr. 1B

Hazardous to the aquatic environment, acute, Category 1
Skin corrosion, Category 1B

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.