

Trade name: Benzalkonii chloridum

Substance number: 061694

Version: 4 / CH

Date revised: 12.01.2021

Replaces Version: 3 / CH

Print date: 12.01.21

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

1.1. Product identifier

Benzalkonii chloridum

Item No. 06169400

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

Use of the substance/preparation

Preservative, pharmacy, Preservative for cosmetics, Component of cosmetic products

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

Eye Dam. 1 H318

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

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.

H410

Very toxic to aquatic life with long lasting effects.

Trade name: Benzalkonii chloridum

Substance number: 061694

Version: 4 / CH

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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 *** Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

SECTION 3: Composition/information on ingredients *****Hazardous ingredients *******Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**

EINECS no.	939-253-5	
Registration no.	01-2119965180-41-0009	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)		
	Acute Tox. 4	H302
	Skin Corr. 1B	H314
	Eye Dam. 1	H318
	Aquatic Acute 1	H400
	Aquatic Chronic 1	H410

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

In any case show the physician the Safety Data Sheet. Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely. After contact with skin, wash immediately with plenty of water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Remove contact lenses. Take medical treatment.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Call in a physician immediately and show him the Safety Data Sheet.

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

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

5.2. Special hazards arising from the substance or mixture

Trade name: Benzalkonii chloridum

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In case of combustion, evolution of health hazardous partially burned gases.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin. Wear protective equipment

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. When picked up, treat material as prescribed under Section 13 "Disposal". Clean up affected area. After cleaning, flush away traces with water.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Observe the usual precautions for handling chemicals. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed.

Storage classes

Storage class according to TRGS 510	8B	Non-combustible corrosive hazardous substances
Storage category (Switzerland)	8	Caustic and corrosive substances

Further information on storage conditions

Protect from warmth. Protect from heat.

SECTION 8: Exposure controls/personal protection

8.2. Exposure controls

General protective and hygiene measures

Provide adequate ventilation. Hold eye wash fountain available. Wash hands before breaks and after work.

Respiratory protection

Provide good ventilation of working area (local exhaust ventilation if necessary). In case of insufficient ventilation, wear suitable respiratory equipment. Gas filter A2.

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness

Trade name: Benzalkonii chloridum

Substance number: 061694

Version: 4 / CH

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Replaces Version: 3 / CH

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before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material nitrile

Eye protection

Tightly fitting safety glasses; Face shield

Body protection

Personnel should wear protective clothing.

SECTION 9: Physical and chemical properties *****9.1. Information on basic physical and chemical properties**

Form	solid		
Colour	white to light yellow		
Odour	not applicable		
Form	Gel		
Colour	clear		
Melting point			
Value	-29		°C
Flash point			
Value	°C		
Remarks	Not applicable		
Vapour pressure			
Value	0.002		Pa
Temperature	20	°C	
Density			
Value	0.929		g/cm ³
Temperature	20	°C	
Remarks	Relative Density according specification		
Solubility in water			
Remarks	miscible		
Auto-ignition temperature			
Remarks	Not applicable		
Decomposition temperature			
Value	150	to	300 °C
Explosive properties			
evaluation	Not applicable		

SECTION 10: Stability and reactivity**10.1. Reactivity**

None known

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Trade name: Benzalkonii chloridum

Substance number: 061694

Version: 4 / CH

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Replaces Version: 3 / CH

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Strong oxidising agents, Strong oxidising agents

10.6. Hazardous decomposition products

In the event of fire the following can be released: Toxic gases/vapours

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE	795	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**

Species	rat	
LD50	795	mg/kg

Skin corrosion/irritation

evaluation	corrosive
Remarks	Longer or repeated exposure with the product may cause dermatitis

Serious eye damage/irritation

evaluation	corrosive
Remarks	Risk of serious damage to eyes.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity**

Species	zebra fish (Brachydanio rerio)	
LC50	< 0.01 to 0.1	mg/l
Remarks	Very toxic for fishes.	

Fish toxicity (Components)**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**

LC50	0.1 to 1	mg/l
Duration of exposure	96 h	

Daphnia toxicity

Species	Daphnia magna	
EC50	0.02	mg/l
Duration of exposure	48 h	

Daphnia toxicity (Components)**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**

Species	Daphnia	
EC50	0.01 to 0.1	
Duration of exposure	48 h	

Algae toxicity

Species	Pseudokirchneriella subcapitata	
IC50	0.07	mg/l
Duration of exposure	75 h	

12.2. Persistence and degradability**Biodegradability (Components)****Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**

evaluation	biodegradable
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Trade name: Benzalkonii chloridum

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Version: 4 / CH

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Replaces Version: 3 / CH

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12.3. Bioaccumulative potential

General information

Not applicable

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

Evaluation of persistence and bioaccumulation potential

The product contains no PBT or vPvB substances.

12.6. Other adverse effects

General information / ecology

Very toxic for aquatic organisms.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 07 05 07* halogenated still bottoms and reaction residues

Disposal in compliance with local and national regulations.

EWC waste code 07 06 07* halogenated still bottoms and reaction residues

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information ***

Trade name: Benzalkonii chloridum







Substance number: 061694

Version: 4 / CH

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Replaces Version: 3 / CH

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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)	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (benzododecinium chloride)	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (benzododecinium 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 Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

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Acute Tox. 4

Acute toxicity, Category 4

Aquatic Acute 1

Hazardous to the aquatic environment, acute, Category 1

Aquatic Chronic 1

Hazardous to the aquatic environment, chronic, Category 1

Eye Dam. 1

Serious eye damage, Category 1

Skin Corr. 1B

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.