



Trade name: Benzethoniumchlorid/Sigma-Aldrich GmbH

Substance number: 711695

Version: 1 / CH

Date revised: 23.02.11

Replaces Version: - / CH

Date of printing: 22.06.12

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Benzethoniumchlorid/Sigma-Aldrich GmbH
Item-No. 71169502

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

Use of the substance/preparation

Preservative for cosmetics, Cleaning agent

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG
Industriestrasse 35
9101 Herisau
Telephone no. 0041 (0)71 353 58 58
E-mail address of person responsible for this SDS sdb@haenseler.ch

1.4. Emergency telephone number

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

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
Aquatic Chronic 1	H410

Route of exposure: Oral

Classification in accordance with EC directives

Classification Xn, R22
C, R34
N, R50/53

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.



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Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309+P311	IF exposed or if you feel unwell: CALL a POISON CENTER or doctor/physician.

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Hazard symbols

Corrosive



Dangerous for the environment

R phrases

22	Harmful if swallowed.
34	Causes burns.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28.1	After contact with skin, wash immediately with plenty of water.
36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
61	Avoid release to the environment. Refer to special instructions/Safety data sheets.

Hazardous component(s) to be indicated on label

contains	N,N-dimethyl-N-[2-[2-[4-(1,1,3,3,-tetramethylbutyl)phenoxy]ethoxy]ethyl]-,chloride 204-479-9
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3. Composition/information on ingredients**Hazardous ingredients**

N,N-dimethyl-N-[2-[2-[4-(1,1,3,3,-tetramethylbutyl)phenoxy]ethoxy]ethyl]-,chloride

CAS No.	121-54-0			
EINECS no.	204-479-9			
Concentration		>=	50	%

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



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

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.

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.

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 formation of dust. Take precautionary measures against static charges.

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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8. Exposure controls/personal protection

8.2. Exposure controls

General protective and hygiene measures

Wash hands before breaks and after work. Avoid contact with eyes and skin. 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

Penetrating time > 480 min

Eye protection

Tightly fitting safety glasses

Body protection

Protective clothing

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Powder		
Colour	white		
Odour	odourless		
pH			
Value	5	to	6.5
Concentration/H ₂ O	10	g/l	
Temperature	20	°C	
Boiling point			
Value	°C		
Remarks	No data available		
Flash point			
Value	°C		
Remarks	Not applicable		
Vapour pressure			
Value	<	0.0001	kPa
Solubility in water			
Value	>	543	g/l
Temperature	20	°C	
method	OECD		
Octanol/water partition coefficient (log Pow)			
log Pow	1.08		
Temperature	20	°C	
method	OECD 107		
Ignition temperature			
Value	appr.	380	°C
Efflux time			
Remarks	Not applicable		



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9.2. Other information

Bulk density

Value	appr. 440	kg/m ³
Temperature	20 °C	

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

11. Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Species	rat	
LD50	295	mg/kg
method	OECD 401	

Acute dermal toxicity

Species	rabbit	
Duration of exposure	4	h
Remarks	Corrosive	

Sensitization

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

Mutagenicity

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

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



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method	OECD 202
Remarks	Immobilization

Algae toxicity

Species	Selenastrum capricornutum	
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
valuation	not readily degradable	
method	OECD 301	

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow)**

log Pow	1.08	
Temperature	20	°C
method	OECD 107	

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

Adsorption/ ground: high mobile

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.

14. Transport information**Land transport ADR/RID****14.1. UN number**

UN 2923

14.2. UN proper shipping name

CORROSIVE SOLID, TOXIC, N.O.S

Danger releasing substance N,N-dimethyl-N-[2-[2-[4-(1,1,3,3,-tetramethylbutyl)phenoxy]ethoxy]ethyl]-,chloride 204-479-9

14.3. Transport hazard class(es)

Class	8	
Label	8	6.1

14.4. Packing group

Packing group III

Marine transport IMDG/GGVSee**14.1. UN number**

UN 2923



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Danger releasing substance N,N-dimethyl-N-[2-[2-[4-(1,1,3,3,-
tetramethylbutyl)phenoxy]ethoxy]ethyl]-,chloride 204-479-9**14.3. Transport hazard class(es)**Class 8
Subsidiary risk 6.1**14.4. Packing group**

Packing group III

14.5. Environmental hazards

Marine Pollutant

Air transport ICAO/IATA**14.1. UN number**

UN 2923

14.2. UN proper shipping name

CORROSIVE SOLID, TOXIC, N.O.S

Danger releasing substance N,N-dimethyl-N-[2-[2-[4-(1,1,3,3,-
tetramethylbutyl)phenoxy]ethoxy]ethyl]-,chloride 204-479-9**14.3. Transport hazard class(es)**Class 8
Subsidiary risk 6.1**14.4. Packing group**

Packing group III

15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations Switzerland**

Swiss Toxicity Class 2

16. Other information**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.