Printing date 09/01/2017

Reviewed on 07/19/2017

## **1** Identification

- · Product identifier
- · Trade name: <u>Benzethonium Chloride 97%</u>
- · Article number: B1675
- · CAS Number:
- 121-54-0
- **EC number:** 204-479-9
- Details of the supplier of the safety data sheet
  Manufacturer/Supplier: Aqua Solutions, Inc.
  6913 Highway 225 DEER PARK, TX 77536 USA
  800-256-2586
- Information department: Technical Coordinator
   Sherman Nelson sherman@aquasolutions.org
   Emergency telephone number:
- Chemtrec: 800-424-9300 Canutec: 613-996-6666

## **2** *Hazard*(*s*) *identification*

· Classification of the substance or mixture

GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.



*Skin Corr. 1A H314 Causes severe skin burns and eye damage.* 

### · Label elements

• *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



Signal word Danger
Hazard statements
Toxic if swallowed.
Causes severe skin burns and eye damage.
Precautionary statements
Do not breathe dusts or mists.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.



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(Contd. of pa	ige 1)
Wear protective gloves/protective clothing/eye protection/face protection.	
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to	, do.
Continue rinsing.	
Specific treatment (see on this label).	
Wash contaminated clothing before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 3	
$\frac{1}{Fire} = 0$	
3 0 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
<b>HEALTH</b> 3 $Health = 3$	
FIRE 0 Fire = 0	
$\frac{1}{\text{REACTIVITY}} = 0$	
REACTIVITIE Reactivity = 0	
· Other hazards	
· Results of PBT and vPvB assessment	
• <b><i>PBT</i></b> : Not applicable.	
· <b>vPvB:</b> Not applicable.	
3 Composition/information on ingredients	
· Chemical characterization: Substances	
· CAS No. Description	
121-54-0 Benzethonium chloride	

- · Identification number(s)
- EC number: 204-479-9

## 4 First-aid measures

- · Description of first aid measures
- · General information:
- Immediately remove any clothing soiled by the product.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
- Do not induce vomiting; immediately call for medical help.
- Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.

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• *Indication of any immediate medical attention and special treatment needed No further relevant information available.* 

### **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

### **6** Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions:

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

- Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Use neutralizing agent. Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.
- PAC-2: Substance is not listed.
- · PAC-3: Substance is not listed.

### 7 Handling and storage

· Handling:

- · Precautions for safe handling
- Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

· Information about protection against explosions and fires: Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

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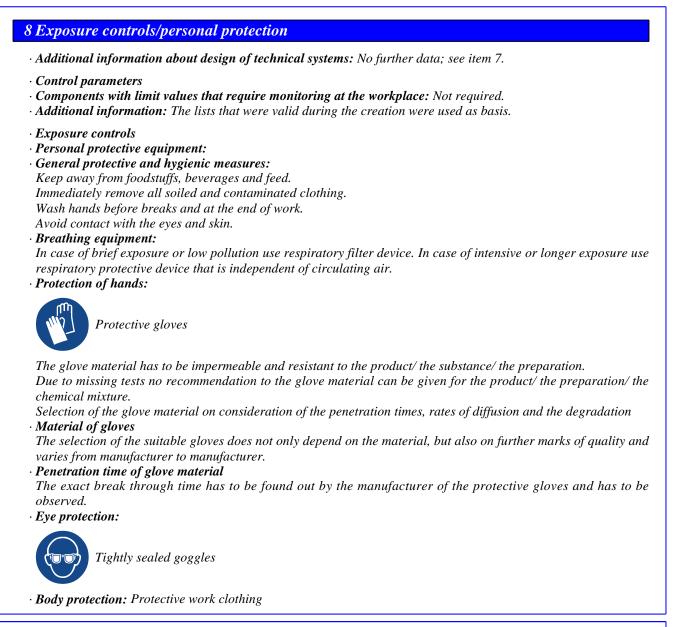
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<ul> <li>Information on basic physic</li> <li>General Information</li> </ul>	cal and chemical properties	
· Appearance:		
Form:	Solid	
Color:	White	
· Odor:	Odorless	
• Odor threshold:	Not determined.	
· pH-value:	5.5-7.5	

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Change in condition		
Melting point/Melting range:	162-164 °C (324-327 °F)	
Boiling point/Boiling range:	Undetermined.	
· Flash point:	Not applicable.	
Flammability (solid, gaseous):	Product is not flammable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
Density at 20 °C (68 °F):	0.998 g/cm³ (8.328 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water at 20 °C (68 °F):	44.8 g/l	
Partition coefficient (n-octanol/wat	ter): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Other information	No further relevant information available.	

## **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

Information on t Acute toxicity:	oxicological effects		
LD/LC50 values	that are relevant for classi	fication:	
Oral	LD50	295 mg/kg (rat)	
Dermal	LD50	no data availab mg/kg (rat)	
Irritation of skin	Skin Corrosion/Irritation	skin burns (Human)	

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Irritation of eyes Eye damage/eye irritation Severe Irritant (rabbit)

- · Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

### **12 Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

- Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- **vPvB**: Not applicable.
- Other adverse effects No further relevant information available.

### **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number	
· DOT, IMDG, IATA	UN2923
· UN proper shipping name	
$\cdot DOT$	Corrosive solids, toxic, n.o.s. (Benzethonium chloride)
· IMDG, IATA	CORROSIVE SOLID, TOXIC, N.O.S. (Benzethonium chloride)

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Transport hazard class(es)	
DOT	
8 6	
Class	8 Corrosive substances
Label	8, 6.1
IMDG	
Class	8 Corrosive substances
Label	8/6.1
IATA	
Class	8 Corrosive substances
Label	8 (6.1)
Packing group DOT, IMDG, IATA	111
Environmental hazards:	Environmentally hazardous substance, solid
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	80
EMS Number:	F-A,S-B
Stowage Category	B SW2 Clean of living quantum
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
-	
DOT Overtity limitations	On passanger giver aft/rail: 60 I
Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
	On curgo uncruji oniy. 220 L
	51
Limited quantities (LQ)	5L
Excepted quantities $(EQ)$	Code: El
	Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
UN ''Model Regulation'':	UN 2923 CORROSIVE SOLIDS, TOXIC, N.O.S. (BENZETHONIU)

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## **15 Regulatory information** · Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara • Section 355 (extremely hazardous substances): Substance is not listed. · Section 313 (Specific toxic chemical listings): Substance is not listed. · TSCA (Toxic Substances Control Act): Substance is listed. · Proposition 65 · Chemicals known to cause cancer: Substance is not listed. · Chemicals known to cause reproductive toxicity for females: Substance is not listed. · Chemicals known to cause reproductive toxicity for males: Substance is not listed. · Chemicals known to cause developmental toxicity: Substance is not listed. · Carcinogenic categories · EPA (Environmental Protection Agency) Substance is not listed. • TLV (Threshold Limit Value established by ACGIH) Substance is not listed. · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed. • GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS05 GHS06 · Signal word Danger · Hazard statements Toxic if swallowed. Causes severe skin burns and eye damage. · Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Department issuing SDS: Environment protection department.

· Contact:

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· Date of preparation / last revision	
Revision 0.0 09-01-2017: Creation date for SDS. STN	
09/01/2017 / -	
· Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International	
Carriage of Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
EINECS: European Inventory of Existing Commercial Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Acute Tox. 3: Acute toxicity – Category 3	
Skin Corr. 1A: Skin corrosion/irritation – Category 1A	
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