# Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: March 22, 2020

1 Identification
· Product identifier
<ul> <li>Trade name: <u>Benzethonium Chloride Solution</u></li> <li>Product code: HY3900SS</li> </ul>
<ul> <li>Recommended use and restriction on use</li> <li>Recommended use: Laboratory chemicals</li> <li>Restrictions on use: No relevant information available.</li> </ul>
<ul> <li>Details of the supplier of the Safety Data Sheet</li> <li>Manufacturer/Supplier: AquaPhoenix Scientific, Inc.</li> <li>860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com</li> <li>Distributor: AquaPhoenix Scientific</li> <li>860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291</li> </ul>
Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification
Classification of the substance or mixture
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms:
GHS05
<ul> <li>Signal word: Danger</li> <li>Hazard statements: H314 Causes severe skin burns and eye damage.</li> <li>Precautionary statements: P260 Do not breathe mist. P264 Wash thoroughly after handling. P280 Wear protective gloves and eye protection. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. (Cont'd. on page 2)</li> </ul>

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### Trade name: Benzethonium Chloride Solution

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P304+P340	IF INHALED: Remove person to fresh air and keep 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/doctor.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

• Other hazards There are no other hazards not otherwise classified that have been identified.

#### **3** Composition/information on ingredients · Chemical characterization: Mixtures · Components: 121-54-0 Benzethonium chloride 6.39% Acute Tox. 3, H301 🖄 Skin Corr. 1B, H314 7732-18-5 Water 93.61% · Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

### **4** First-aid measures

### Description of first aid measures

· After inhalation: Supply fresh air; consult doctor in case of complaints.

### • After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor,

Seek immediate help for blistering or open wounds.

### · After eye contact:

Protect unharmed eve.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Most important symptoms and effects, both acute and delayed:

Strong caustic effect on skin and mucous membranes.

Gastric or intestinal disorders when ingested.

#### Danger:

May be harmful if swallowed.

Danger of gastric perforation.

Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed:

Medical supervision for at least 48 hours.

If medical advice is needed, have product container or label at hand.

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

### <sup>•</sup> Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

• For safety reasons unsuitable extinguishing agents: No relevant information available.

· Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

### • Advice for firefighters

### · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

### 6 Accidental release measures

### <sup>•</sup> Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation.

Environmental precautions Do not allow to enter sewers/ surface or ground water.

• Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.

**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.

### 7 Handling and storage

### <sup>·</sup> Handling

### · Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Information about protection against explosions and fires: No special measures required.

### <sup>•</sup> Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles: Avoid storage near extreme heat.

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids.

Store away from oxidizing agents.

• Further information about storage conditions:

Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

**Specific end use(s)** No relevant information available.

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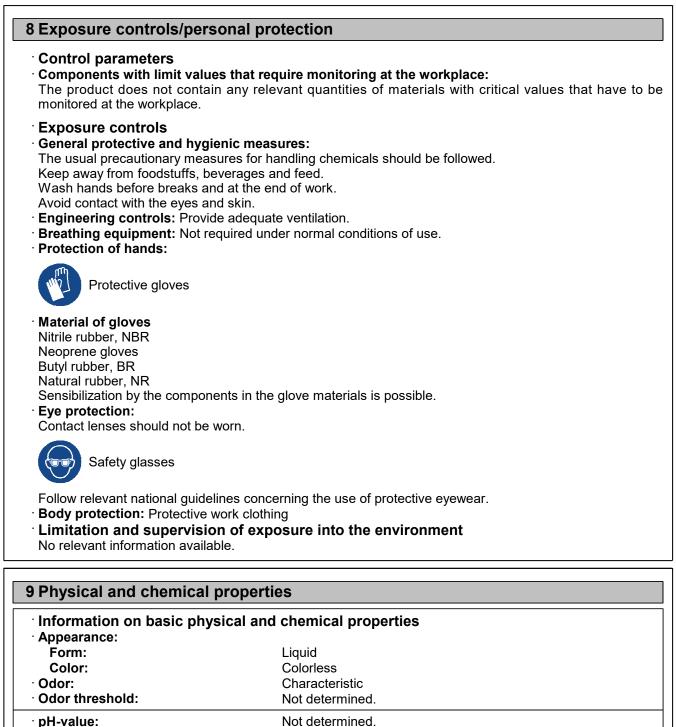
### Trade name: Benzethonium Chloride Solution

· pH-value:

• Melting point/Melting range:

· Boiling point/Boiling range:

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Not determined.

100-102 °C (212-151.6 °F)

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Flash point:	The product is not flammable.	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Non-oxidizing.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1 g/cm³ (8.35 lbs/gal)	
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	er): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	

### 10 Stability and reactivity

- · Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.

### <sup>•</sup> Possibility of hazardous reactions

Reacts with strong acids and oxidizing agents.

- Toxic fumes may be released if heated above the decomposition point.
- · Conditions to avoid No relevant information available.

### <sup>·</sup> Incompatible materials

Acids.

Oxidizing agents.

### Hazardous decomposition products

- Under fire conditions only:
- Chlorine compounds
- Nitrogen oxides
- Carbon monoxide and carbon dioxide

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Acute toxicity: Based on available data, the classification criteria are not met. LD/LC50 values that are relevant for classification: ATE (Acute Toxicity Estimate) Oral [LD50] 4617 mg/kg (rat) 121-54-0 Benzethonium chloride Oral [LD50] 295 mg/kg (rat) Primary irritant effect: On the skin: Strong caustic effect on skin and mucous membranes. On the skin: Strong caustic effect on skin and mucous membranes. On the skin: Strong caustic effect on skin and mucous membranes. On the skin: Strong caustic effect on skin and mucous membranes. On the skin: Strong caustic effect on skin and mucous membranes. On the skin: Strong caustic effect on skin and mucous membranes. On the skin: Strong caustic effect on skin and mucous membranes. On the skin: Strong caustic effect on skin and mucous membranes. On the skin: Strong caustic effect on skin and mucous membranes. On the skin: Strong caustic effect on skin and mucous membranes. On the skin: Strong caustic effect on skin and mucous membranes. On the skin: Strong caustic effect on skin and mucous membranes. None of the ingredients are listed. Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): Causes severe skin burns and eye damage. May be harmful if swallowed. Repeated dose toxicity: No relevant information available. Germ cell mutagenicity: Based on available data, the classification criteria are not met. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposu		formation on toxicological effects
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	Р	ersistence and degradability No relevant information available.
Mobility in soil: No relevant information available.	В	ioaccumulative potential: No relevant information available.

Additional ecological information

· General notes:

Do not allow product to reach ground water, water course or sewage system.

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according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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### Trade name: Benzethonium Chloride Solution

(Cont'd. of page 6) Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Toxic for aquatic organisms

Other adverse effects No relevant information available.

### 13 Disposal considerations

### <sup>·</sup> Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, ADR/RID/ADN, IMDG, IATA	UN1760
UN proper shipping name	
DOT ADR/RID/ADN	Corrosive liquids, n.o.s. (Benzethonium Chloride) CORROSIVE LIQUID, N.O.S. (Benzethoniu Chloride), ENVIRONMENTALLY HAZARDOUS
IMDG	CORRÓSIVE LIQUID, N.O.S. (Benzethoniu Chloride), MARINE POLLUTANT
ΙΑΤΑ	CORROSIVE LIQUID, N.O.S. (Benzethonium Chloric
Transport hazard class(es)	
DOT	
Class	8
Label	8
ADR/RID/ADN	
Class	8 (C9)
Label	8
IMDG	
	0
Class	8 8

Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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ΙΑΤΑ	
<u>Fa</u>	
Class	0
Label	8 8
Packing group	
DOT, ADR/RID/ADN, IMDG, IATA	III
Environmental hazards	Product contains environmentally hazard
	substances: Benzethonium chloride
Marine pollutant:	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code): EMS Number:	80 F-A,S-B
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Safety, health and environmental regul mixture United States (USA)	ations/legislation specific for the substance
Safety, health and environmental regul mixture United States (USA)	
Safety, health and environmental regul mixture United States (USA) SARA	
Safety, health and environmental regul mixture United States (USA) SARA Section 302 (extremely hazardous substance None of the ingredients are listed.	s):
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according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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### Trade name: Benzethonium Chloride Solution

(Cont'd. of page 8)

None of the ingredients are listed.

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

### Canadian Domestic Substances List (DSL):

None of the ingredients are listed.

### **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.

#### • Abbreviations and acronyms:

ADR: 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtel.com