

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 05.03.2017

Benzethonium Chloride Solution**SECTION 1: Identification of the substance/mixture and of the supplier****Product name:** Benzethonium Chloride Solution**Manufacturer/Supplier Article number:** HY3900SS**Recommended uses of the product and restrictions on use:** Laboratory Chemicals**Manufacturer Details:**

AquaPhoenix Scientific, Inc.
860 Gitts Run Road
Hanover, PA 17331
1-717-632-1291

Emergency telephone number:

ChemTel Inc
+1(800)255-3924
+1(813)248-0585

SECTION 2: Hazards identification**Classification of the substance or mixture:****Environmentally Damaging**

Chronic aquatic hazard, category 2

Signal word: Warning**Hazard statements:**

Toxic to aquatic life with long lasting effects.

Precautionary statements:

Avoid release to the environment.
Collect spillage.
Dispose of contents and container as instructed in Section 13.

Other Non-GHS Classification: None**SECTION 3: Composition/information on ingredients****Ingredients:**

CAS / EINECS #	Ingredient Name	Wt. %
7732-18-5	Water	90-97
121-54-0	Hyamine 1622	3-10

SECTION 4: First aid measures**Description of first aid measures****After inhalation:**

Loosen clothing as necessary and position individual in a comfortable position. Maintain an unobstructed airway. Get medical advice/attention if you feel unwell.

After skin contact:

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Rinse affected area with soap and water. If symptoms develop or persist, seek medical attention.

After eye contact: None**After swallowing:**

Do not induce vomiting. Get medical advice/attention if you feel unwell. Rinse mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed: None**Indication of any immediate medical attention and special treatment needed:** None**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing agents:**

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

Unsuitable extinguishing agents: None**Special hazards arising from the substance or mixture:**

Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:**Protective equipment:**

Wear protective eye wear, gloves and clothing. Refer to Section 8. Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Additional information (precautions):

Heating causes a rise in pressure, risk of bursting and combustion. Shut off sources of ignition. Carbon monoxide and carbon dioxide may form upon combustion.

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

Ensure adequate ventilation. Ensure air handling systems are operational. Wear protective eye wear, gloves and clothing.

Environmental precautions:

Should not be released into the environment. Prevent from reaching drains, sewer or waterway.

Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders). Dispose of contents / container in accordance with local regulations.

Reference to other sections: None**SECTION 7: Handling and storage****Precautions for safe handling:**

Do not eat, drink, smoke or use personal products when handling chemical substances. Avoid breathing mist or vapor. Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area. Store away from foodstuffs.

SECTION 8: Exposure controls/personal protection

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Benzethonium Chloride Solution**Control parameters:**

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Respiratory protection: When necessary, use NIOSH-approved breathing equipment.

Protection of skin: Select glove material impermeable and resistant to the substance.

Eye protection: Safety goggles or glasses, or appropriate eye protection.

General hygienic measures: Wash hands before breaks and at the end of work. Avoid contact with skin, eyes and clothing. Perform routine housekeeping. Wash contaminated clothing before reusing.

SECTION 9: Physical and chemical properties

Appearance (physical state, color):	Clear to foamy, colorless liquid	Explosion limit lower:	
Odor:	Odorless	Explosion limit upper:	
Odor threshold:		Vapor pressure at 20°C:	
pH-value:	6-7	Vapor density:	
Melting/Freezing point:		Relative density:	Approx. 1
Boiling point/Boiling range:		Solubilities:	Infinite solubility in water.
Flash point (closed cup):		Partition coefficient (n-octanol/water):	
Evaporation rate:		Auto/Self-ignition temperature:	
Flammability (solid, gaseous):		Decomposition temperature:	
Density at 20°C:		Viscosity:	a. Kinematic: b. Dynamic:

SECTION 10: Stability and reactivity

Reactivity: None

Chemical stability: None

Possible hazardous reactions: None

Conditions to avoid: None

Incompatible materials:

Strong Oxidizing agents, soap, and anionic detergents.

Hazardous decomposition products:

Oxides of carbon, nitrogen and fumes of chlorine.

SECTION 11: Toxicological information

Acute Toxicity:

Oral:

LD50 - Mouse - 338 mg/kg.

Chronic Toxicity: No additional information.

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Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitization: No additional information.**Carcinogenicity:** No additional information.**Germ cell mutagenicity:** No additional information.**Reproductive Toxicity:** No additional information.**STOT-single and repeated exposure:**

Hyamine 1622: May cause respiratory tract irritation.

Additional toxicological information:

No additional information.

SECTION 12: Ecological information**Ecotoxicity:**

Hyamine 1622: Fish, LC50 - Pimephales promelas - 4.2 mg/L 48-hr.

Persistence and degradability: No additional information.**Bioaccumulative potential:** No additional information.**Mobility in soil:** No additional information.**Other adverse effects:** No additional information.**SECTION 13: Disposal considerations****Waste disposal recommendations:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. (US 40CFR262.11).

SECTION 14: Transport information**US DOT****UN Number:**

ADR, ADN, DOT, IMDG, IATA

None

Limited Quantity Exception:

None

Bulk:**RQ (if applicable):** None**Proper shipping Name:** None**Hazard Class:** None**Packing Group:** None**Marine Pollutant (if applicable):** No additional information.**Comments:** None**Non Bulk:****RQ (if applicable):** None**Proper shipping Name:** None**Hazard Class:** None**Packing Group:** None**Marine Pollutant (if applicable):** No additional information.**Comments:** None

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None of the ingredients are listed.

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

RCRA (hazardous waste code):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) :

7732-18-5 Water: listed.

121-54-0 Hyamine 1622: listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

Proposition 65 (California):**Chemicals known to cause cancer:**

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Canada**Canadian Domestic Substances List (DSL) :**

7732-18-5 Water: listed.

121-54-0 Hyamine 1622: listed.

SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 1-0-0**HMIS:** 1-0-0**GHS Full Text Phrases:** None**Abbreviations and Acronyms:** None