

# Safety Data Sheet

## HY1255SS

Version number: 1.0

Date of compilation: 2026-06-24

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name **Hyamine Cationic Solution 0.05N**

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

Relevant identified uses laboratory and analytical use

#### 1.3 Details of the supplier of the safety data sheet

AquaPhoenix Scientific  
860 Gitts Run Road  
Hanover PA 17331  
United States

Telephone: (866) 632-1291  
e-mail: [info@aquaphoenixsci.com](mailto:info@aquaphoenixsci.com)  
Website: <https://www.aquaphoenixsci.com/>

#### 1.4 Emergency telephone number

Emergency information service ChemTel Inc.: 1-800-255-3924, +01-813-248-0585

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200, Rev. 2024)

| Hazard class                                          | Category | Hazard class and category | Hazard statement |
|-------------------------------------------------------|----------|---------------------------|------------------|
| skin corrosion/irritation                             | 2        | Skin Irrit. 2             | H315             |
| serious eye damage/eye irritation                     | 2        | Eye Irrit. 2              | H319             |
| hazardous to the aquatic environment - acute hazard   | 3        | Aquatic Acute 3           | H402             |
| hazardous to the aquatic environment - chronic hazard | 3        | Aquatic Chronic 3         | H412             |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200, Rev. 2024)

- Signal word warning

- Pictograms

GHS07



- Hazard statements

H315+H319

Causes skin irritation and serious eye irritation.

H412

Harmful to aquatic life with long lasting effects.

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### - Precautionary statements

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P264+P265      | Wash hands thoroughly after handling. Do not touch eyes.                                                                         |
| P273           | Avoid release to the environment.                                                                                                |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.                                    |
| P302+P352      | IF ON SKIN: Wash with plenty of water.                                                                                           |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P321           | Specific treatment (see on this label).                                                                                          |
| P332+P317      | If skin irritation occurs: Get medical help.                                                                                     |
| P337+P317      | If eye irritation persists: Get medical help.                                                                                    |
| P362+P364      | Take off contaminated clothing and wash it before reuse.                                                                         |
| P501           | Dispose of contents/container in accordance with local/regional/national/international regulations.                              |

## 2.3 Other hazards

### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

| Name of substance     | Identifier          | Wt%   | Classification acc. to GHS                                                                                             | Pictograms                                                                                                                                                                                                                                                        |
|-----------------------|---------------------|-------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water                 | CAS No<br>7732-18-5 | 97.76 |                                                                                                                        |                                                                                                                                                                                                                                                                   |
| Benzethonium chloride | CAS No<br>121-54-0  | 2.24  | Acute Tox. 3 / H301<br>Skin Corr. 1B / H314<br>Eye Dam. 1 / H318<br>Aquatic Acute 1 / H400<br>Aquatic Chronic 1 / H410 |    |

### Remarks

For full text of abbreviations: see SECTION 16

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

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### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

## 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

## 4.3 Indication of any immediate medical attention and special treatment needed

none

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet

### 5.2 Special hazards arising from the substance or mixture

Information on this property is not available.

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Recommendations

Wear impact- and splash-resistant eyewear.

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

##### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Control of the effects

Protect against external exposure, such as

heat, high temperatures, light, UV-radiation/sunlight

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

this information is not available

#### 8.2 Exposure controls

##### Appropriate engineering controls

General ventilation.

##### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection.

##### Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Wash hands thoroughly after handling.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

**Product description:** See website or catalog for details.

|                |        |
|----------------|--------|
| Physical state | liquid |
|----------------|--------|

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|                                                          |                 |
|----------------------------------------------------------|-----------------|
| Color                                                    | colorless       |
| Odor                                                     | characteristic  |
| Melting point/freezing point                             | 0 °C at 1 atm   |
| Boiling point or initial boiling point and boiling range | 100 °C at 1 atm |
| Evaporation rate                                         | not determined  |
| Flammability                                             | non-combustible |
| Lower and upper explosion limit                          | not determined  |
| Flash point                                              | not determined  |
| Auto-ignition temperature                                | not determined  |
| Decomposition temperature                                | not relevant    |
| pH (value)                                               | not determined  |
| Kinematic viscosity                                      | not determined  |

### Solubility(ies)

|                  |                            |
|------------------|----------------------------|
| Water solubility | miscible in any proportion |
|------------------|----------------------------|

### Partition coefficient

|                                                   |                                   |
|---------------------------------------------------|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---------------------------------------------------|-----------------------------------|

|                |                 |
|----------------|-----------------|
| Vapor pressure | 23 hPa at 20 °C |
|----------------|-----------------|

### Density and/or relative density

|                         |                                               |
|-------------------------|-----------------------------------------------|
| Density                 | not determined                                |
| Relative vapour density | information on this property is not available |

|                          |                       |
|--------------------------|-----------------------|
| Particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

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### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200, Rev. 2024)

#### Acute toxicity

Shall not be classified as acutely toxic.

#### Acute toxicity estimate (ATE) of components

| Name of substance     | CAS No   | Exposure route | ATE       |
|-----------------------|----------|----------------|-----------|
| Benzethonium chloride | 121-54-0 | oral           | 295 mg/kg |

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### 11.2 Information on other hazards

There is no additional information.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

| Aquatic toxicity (acute) of components |          |          |            |                       |               |
|----------------------------------------|----------|----------|------------|-----------------------|---------------|
| Name of substance                      | CAS No   | Endpoint | Value      | Species               | Exposure time |
| Benzethonium chloride                  | 121-54-0 | EC50     | 0.249 mg/l | aquatic invertebrates | 24 h          |
| Benzethonium chloride                  | 121-54-0 | ErC50    | 0.3 mg/l   | algae                 | 72 h          |

#### 12.2 Persistence and degradability

| Degradability of components |          |                           |                  |      |        |        |
|-----------------------------|----------|---------------------------|------------------|------|--------|--------|
| Name of substance           | CAS No   | Process                   | Degradation rate | Time | Method | Source |
| Benzethonium chloride       | 121-54-0 | carbon dioxide generation | 0 %              | 2 d  |        | ECHA   |

#### 12.3 Bioaccumulative potential

Data are not available.

| Bioaccumulative potential of components |           |     |                               |          |
|-----------------------------------------|-----------|-----|-------------------------------|----------|
| Name of substance                       | CAS No    | BCF | Log KOW                       | BOD5/COD |
| Water                                   | 7732-18-5 |     | -0.467 (pH value: 7, 20 °C)   |          |
| Benzethonium chloride                   | 121-54-0  |     | 1.08 (pH value: ~6.85, 20 °C) |          |

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

#### 12.7 Other adverse effects

Data are not available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Please consider the relevant national or regional provisions.

### SECTION 14: Transport information

#### 14.1 UN number

not subject to transport regulations

#### 14.2 UN proper shipping name

not relevant

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- 14.3 Transport hazard class(es)** none
- 14.4 Packing group** not assigned
- 14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations
- 14.6 Other relevant information**  
Shipping container markings and labels, received from AquaPhoenix, may vary from the above information. Products that are regulated for transport will be packaged by AquaPhoenix as Dangerous Goods in Excepted Quantities according to IATA, US DOT, and IMDG regulations. AquaPhoenix may also elect to ship certain products as UN 3316 Chemical Kit, Hazard Class 9, Packing Group II or III. In case of reshipment, it is the responsibility of the shipper to determine appropriate labels and markings in accordance with applicable transportation regulations.
- 14.7 Maritime transport in bulk according to IMO instruments**  
The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

#### **Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information**

Not subject to transport regulations.

#### **International Maritime Dangerous Goods Code (IMDG) - Additional information**

Not subject to IMDG.

#### **International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information**

Not subject to ICAO-IATA.

## SECTION 15: Regulatory information

### **15.1 Safety, health and environmental regulations specific for the product in question**

#### **National regulations (United States)**

##### **Toxic Substances Control Act (TSCA)**

all ingredients are listed (ACTIVE) or exempt from listing

##### **Superfund Amendment and Reauthorization Act (SARA TITLE III )**

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

##### **Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)**

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

none of the ingredients are listed

##### **Clean Air Act**

none of the ingredients are listed

##### **Right to Know Hazardous Substance List**

- Hazardous Substance List (NJ-RTK)

none of the ingredients are listed

##### **California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987**

none of the ingredients are listed

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### Industry or sector specific available guidance(s)

#### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category            | Rating | Description                                                                                                                                                |
|---------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chronic             | /      | none                                                                                                                                                       |
| Health              | 2      | temporary or minor injury may occur                                                                                                                        |
| Flammability        | 0      | material that will not burn under typical fire conditions                                                                                                  |
| Physical hazard     | 0      | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | -      |                                                                                                                                                            |

#### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category       | Degree of hazard | Description                                                                                      |
|----------------|------------------|--------------------------------------------------------------------------------------------------|
| Flammability   | 0                | material that will not burn under typical fire conditions                                        |
| Health         | 2                | material that, under emergency conditions, can cause temporary incapacitation or residual injury |
| Instability    | 0                | material that is normally stable, even under fire conditions                                     |
| Special hazard |                  |                                                                                                  |

### National inventories

| Country | Inventory  | Status                              |
|---------|------------|-------------------------------------|
| AU      | AIIC       | all ingredients are listed          |
| CA      | DSL        | all ingredients are listed          |
| CN      | IECSC      | all ingredients are listed          |
| EU      | ECSI       | all ingredients are listed          |
| EU      | REACH Reg. | not all ingredients are listed      |
| JP      | CSCL-ENCS  | all ingredients are listed          |
| KR      | KECI       | all ingredients are listed          |
| MX      | INSQ       | all ingredients are listed          |
| NZ      | NZIoC      | all ingredients are listed          |
| PH      | PICCS      | all ingredients are listed          |
| TW      | TCSI       | all ingredients are listed          |
| US      | TSCA       | all ingredients are listed (ACTIVE) |

#### Legend

|           |                                                          |
|-----------|----------------------------------------------------------|
| AIIC      | Australian Inventory of Industrial Chemicals             |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL       | Domestic Substances List (DSL)                           |
| ECSI      | EC Substance Inventory (EINECS, ELINCS, NLP)             |

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### Legend

|            |                                                                         |
|------------|-------------------------------------------------------------------------|
| IECSC      | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ       | National Inventory of Chemical Substances                               |
| KECI       | Korea Existing Chemicals Inventory                                      |
| NZIoC      | New Zealand Inventory of Chemicals                                      |
| PICCS      | Philippine Inventory of Chemicals and Chemical Substances (PICCS)       |
| REACH Reg. | REACH registered substances                                             |
| TCSI       | Taiwan Chemical Substance Inventory                                     |
| TSCA       | Toxic Substances Control Act                                            |

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information, including date of preparation or last revision

### Abbreviations and acronyms

| Abbr.           | Descriptions of used abbreviations                                                                                                                                               |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 49 CFR US DOT   | 49 CFR U.S. Department of Transportation                                                                                                                                         |
| Acute Tox.      | Acute toxicity                                                                                                                                                                   |
| Aquatic Acute   | Hazardous to the aquatic environment - acute hazard                                                                                                                              |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard                                                                                                                            |
| ATE             | Acute Toxicity Estimate                                                                                                                                                          |
| BCF             | Bioconcentration factor                                                                                                                                                          |
| BOD             | Biochemical Oxygen Demand                                                                                                                                                        |
| CAS             | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                           |
| COD             | Chemical oxygen demand                                                                                                                                                           |
| DGR             | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                       |
| EC50            | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| ED              | Endocrine disruptor                                                                                                                                                              |
| EINECS          | European Inventory of Existing Commercial Chemical Substances                                                                                                                    |
| ELINCS          | European List of Notified Chemical Substances                                                                                                                                    |
| ErC50           | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control           |
| Eye Dam.        | Seriously damaging to the eye                                                                                                                                                    |
| Eye Irrit.      | Irritant to the eye                                                                                                                                                              |
| GHS             | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                        |
| IATA            | International Air Transport Association                                                                                                                                          |
| IATA/DGR        | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                   |
| ICAO            | International Civil Aviation Organization                                                                                                                                        |
| IMDG            | International Maritime Dangerous Goods Code                                                                                                                                      |
| log KOW         | n-Octanol/water                                                                                                                                                                  |
| NLP             | No-Longer Polymer                                                                                                                                                                |

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| Abbr.          | Descriptions of used abbreviations                                                                            |
|----------------|---------------------------------------------------------------------------------------------------------------|
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| OSHA           | Occupational Safety and Health Administration (United States)                                                 |
| PBT            | Persistent, Bioaccumulative and Toxic                                                                         |
| RTECS          | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)           |
| Skin Corr.     | Corrosive to skin                                                                                             |
| Skin Irrit.    | Irritant to skin                                                                                              |
| vPvB           | Very Persistent and very Bioaccumulative                                                                      |

### Key literature references and sources for data

Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").  
Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG).  
Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.  
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                                                  |
|------|-------------------------------------------------------|
| H301 | Toxic if swallowed.                                   |
| H314 | Causes severe skin burns and eye damage.              |
| H315 | Causes skin irritation.                               |
| H318 | Causes serious eye damage.                            |
| H319 | Causes serious eye irritation.                        |
| H400 | Very toxic to aquatic life.                           |
| H402 | Harmful to aquatic life.                              |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects.    |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.