

# SAFETY DATA SHEET

PRODUCT NAME 0.05M Benzethonium Chloride solution Data of issue 2/17/2021  
Date of revision

## 1. Identification of the substance or mixture and the supplier

Product name : 0.05M Benzethonium chloride solution (Hyamine)  
SDS No. : GHS-0126E  
Name of supplier : Kyoto Electronics Manufacturing Co., Ltd.  
Address : 68 Ninodan-cho, Shinden, Kisshoin, Minami-ku, Kyoto, Japan  
Division : Quality Assurance Department  
Phone : +81-75-691-4121  
Fax : +81-75-691-4127

## 2. Hazard identification

GHS classification

Physical hazards

Explosives	: Classification not possible
Flammable gases (including chemically unstable gases)	: Classification excluded
Aerosols	: Classification excluded
Oxidizing gases	: Classification excluded
Gases under pressure	: Classification excluded
Flammable liquids	: Classification not possible
Flammable solids	: Classification excluded
Self-reactive substances and mixtures	: Classification not possible
Pyrophoric liquids	: Classification not possible
Pyrophoric solids	: Classification excluded
Self-heating substances and mixtures	: Classification not possible
Substances and mixtures which, in contact with water, emit flammable gases	: Classification not possible
Oxidizing liquids	: Classification not possible
Oxidizing solids	: Classification excluded
Organic peroxides	: Classification not possible
Corrosive to metals	: Classification not possible
Genuinized explosives	: Classification not possible

## Health hazards

Acute toxicity / Oral	: Category 4
Acute toxicity / Dermal	: Classification not possible
Acute toxicity / Inhalation (gas)	: Classification excluded
Acute toxicity / Inhalation (vapour)	: Classification not possible
Acute toxicity / Inhalation (dust/mists)	: Classification not possible
Skin corrosion / Irritation	: Classification not possible
Serious eye damage / Eye irritation	: Classification not possible
Respiratory sensitization	: Classification not possible
Skin sensitization	: Classification not possible
Germ cell mutagenicity	: Classification not possible
Carcinogenicity	: Classification not possible
Reproductive toxicity	: Classification not possible
Reproductive toxicity and effects on lactation	: Classification not possible
Specific target organ toxicity (single exposure)	: Classification not possible
Specific target organ toxicity (repeated exposure)	: Classification not possible
Aspiration hazard	: Classification not possible

## Environmental hazards

Hazardous to the aquatic environment (acute)	: Classification not possible
Hazardous to the aquatic environment (long-term)	: Classification not possible
Hazardous to the ozone layer	: Classification not possible

## GHS label elements :

Symbol :



Signal words :

• Warning

Hazard statements :

• H302:Harmful if swallowed

Precautionary statement :

Prevention :

• P264:Wash hands thoroughly after handling.  
• P270:Do not eat, drink or smoke when using this product.

Response :

• P301+P312:IF SWALLOWED: If you feel unwell, call your doctor.

• P330: Rinse your mouth.

Disposal :

• P501:Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3. Composition/Information on ingredients

Distinction of substance or mixture : mixture

Chemical name or generic name : No information

Components :

No.	Components name	CAS No.	Molecular formula	Content
1	Waterr	7732-18-5	H <sub>2</sub> O	97.8%
2	Benzethonium Chloride	121-54-0	C <sub>27</sub> H <sub>42</sub> NO <sub>2</sub> Cl	2.2%

No.	The Chemical Substance Control Law Class Reference Number in the Gazette List	Industrial Safety and Health Law Class Reference Number in the Gazette List	Industrial Safety and Health Law	PRTR law
1	Existing chemical substances	Existing chemical substances	Not applicable	Not applicable
2	(9)-849,(9)-252,(3)-2782	Published chemical substances	Not applicable	Not applicable

### 4. First-aid measures

If inhaled : • No information

If on skin : • No information

If in eyes : • No information

If swallowed : • Rinse mouth. If you feel unwell, call a doctor.

### 5. Fire-fighting measures

Extinguishing media • All extinguishing agents (the product itself does not burn).

Unsuitable extinguishing media • None in particular

### 6. Accidental release measures

Personal precautions,  
protective equipment and  
emergency procedures : • Eliminate neighboring ignition sources, hot surfaces and flammables immediately.  
• Wear appropriate protective equipment (see Section 8. Exposure controls/personal protection)during working. Avoid contact with eyes/skin and inhalation of the gas.

Environmental  
precautions : • Avoid discharge of the spilled products into rivers and influence on the environment.

Methods and materials for  
containment and cleaning  
up : • Use only non-sparking tools.  
• Absorb the material in soil, sand or other non-combustible material. In case of large spill, avoid overflow by enclosing the affected area with an embankment.  
• Scoop into suitable airtight containers. Appropriate treat as industrial waste according

to the local government's disposal regulations.

## 7. Handling and storage

### Handling

- |                                 |  |
|---------------------------------|--|
| Technical measures :            | <ul style="list-style-type: none"> <li>• Handle in a location with closed equipment, local exhaust, or general ventilation. Ventilate the workplace adequately. Do not breathe divergent vapors or dust.</li> </ul>  |
| Precautions for safe handling : | <ul style="list-style-type: none"> <li>• Prohibit the use of ambient high temperature objects, sparks and fire. Do not eat, drink or smoke when using this product. Do not inhale or swallow. Do not breathe dust. After handling Wash hands thoroughly.</li> <li>• Take precautionary measures against static discharge.</li> </ul> |
| Avoiding incompatibilities :    | <ul style="list-style-type: none"> <li>• No information</li> </ul>   |

### Storage

- |   |  |
|---|--|
| Conditions for safe storage :                       | <ul style="list-style-type: none"> <li>• Protect from direct sunlight. Store at well ventilated place. Store at room temperature.</li> </ul> |
| Container and packaging material for safe storage : | <ul style="list-style-type: none"> <li>• Use airtight containers.</li> </ul>   |

## 8. Exposure controls/Personal protection

- |                                 |  |
|---------------------------------|--|
| Engineering measures :          | <ul style="list-style-type: none"> <li>• Prevent workers from direct contact or exposure.</li> <li>• Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.</li> </ul> |
| Personal protective Equipment : |  |
| Respiratory protection :        | <ul style="list-style-type: none"> <li>• Wear an appropriate protective mask for respiration.</li> </ul>   |
| Hand protection :               | <ul style="list-style-type: none"> <li>• Wear protective gloves.</li> </ul>  |
| Eye protection :                | <ul style="list-style-type: none"> <li>• Wear eye protection.</li> </ul>   |
| Skin and body protection :      | <ul style="list-style-type: none"> <li>• Wear protective clothing.</li> </ul>  |

## 9. Physical and chemical properties

### Appearance (physical state, form, color etc.)

- |                              |                                |
|------------------------------|--------------------------------|
| Physical state               | : Liquid.                      |
| Color                        | : colorless transparent liquid |
| Odour                        | : odorless                     |
| pH                           | : No information               |
| Melting point/Freezing point | : No information               |

Boiling point, initial boiling point, and boiling range	: 100°C
Flash point	: non-inflammability
Upper flammability or explosive limits	: No information
Lower flammability or explosive limits	: No information
Vapour pressure	: No information
Specific gravity	: No information
Solubility Solubility for water	: Readily soluble
Solubility for solvents	: No information
Partition coefficient : n-octanol / water	: No information
Auto-ignition temperature	: No information
Decomposition temperature	: No information

## 10. Stability and reactivity

Reactivity :	• No information
Chemical stability :	• Stable under the normal storage/handling condition.
Possibility of hazardous reactions :	• No information
Conditions to avoid :	• No information
Incompatible materials :	• No information
Hazardous decomposition products :	• No information

## 11. Toxicological information

Acute toxicity :

Benzethonium chloride

LD50(Oral)

Rat

368 mg/kg

[3]

## 12. Ecological information

Ecotoxicity :

Benzethonium chloride

LC50(96H)

Fish (Bluegills)

1.4 mg/L

[3]

Persistence and degradability :	• No information
Bioaccumulation :	• No information
Mobility in soil :	• No information
Hazardous to the ozone layer :	• No information

## 13. Disposal considerations

- |                                      |   |
|--------------------------------------|---|
| Residual waste                       | • Entrust to specialized industrial waste disposers who have received permission from prefectural governor, issue manifesto, and dispose.           |
| Contaminated container and packaging | • Entrust to licensed industrial waste disposers to dispose.<br>• Empty containers should be disposed of after the residues are completely removed. |

## 14. Transport information

- |                      |   |
|----------------------|---|
| Domestic regulations | : Comply with the laws and regulations set forth in "15.Regulatory information."<br><br>During marine transportation, follow the provisions of "Ship Safety Act" and "Law Relating to the Prevention of Marine Pollution and Maritime Disaster".<br><br>During air transportation, follow the provisions of "Civil Aeronautics Act".<br><br>Follow the transportation method described in "Fire Service Act". |
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## 15. Regulatory information

## 16. Other information

### References

- [1] GHS mixture classification judgement system Ver.6.0(METI)
- [2] Workplace safety site(MHLW)
- [3] SDS of suppliers

### Contact

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|------------------------|--|
| Company name           | : Kyoto Electronics Manufacturing Co., Ltd.                  |
| Address                | : 68 Ninodan-cho, Shinden, Kisshoin, Minami-ku, Kyoto, Japan |
| Division               | : Quality Assurance Department                               |
| Phone                  | : +81-75-691-4121  |
| Fax                    | : +81-75-691-4127  |
| Emergency phone number | : +81-75-691-4125  |

### Other information

- This safety data sheet (SDS) is issued based on the latest reference, data etc currently available. The information in this SDS has been carefully assessed, but no guarantee is given for its accuracy. We cannot anticipate all conditions

under which this product may be used. It is the user's responsibility to take appropriate safety measures for handling.