

# SAFETY DATA SHEET

|              |                                      |  |           |
|--------------|--------------------------------------|--|-----------|
| PRODUCT NAME | Carbonate pH Buffer Powder (pH10.01) | Date of issue                          | 28/2/2013 |
|              |                                      | Date of revision/<br>Last Confirmation | 3/4/2025  |

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

|  |   |
|--|---|
| Product name                             | Carbonate pH Buffer Powder (pH10.01)  |
| SDS No.                                  | GHS-0114E   |
| 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   |
| Emergency phone                          | +81-75-691-4125   |
| Recommended uses and restrictions on use |   |
| Recommended use                          | For analysis  |
| Restrictions on use                      | When using for purposes other than those recommended, consult a specialist. |

## 2. Hazard identification

GHS classification

Health hazards

|  |  |
|--|--|
| Acute toxicity / Inhalation (dust, mists)        | Category 4   |
| Serious eye damage / Eye irritation              | Category 1   |
| Specific target organ toxicity (single exposure) | Category 3 (Respiratory tract irritation, Anesthetic action) |

GHS label elements

Hazard pictograms



Signal words

Danger

Hazard statements

H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H335 May cause genital irritation.  
H336 May cause drowsiness and dizziness.

Precautionary statement



## 5. Fire-fighting measures

|  |  |
|--|--|
| Suitable extinguishing media                   | Water<br>Carbon dioxide (CO <sub>2</sub> )<br>Regular foam<br>Dry sand (This product does not burn itself.)  |
| Unsuitable extinguishing media                 | None in particular   |
| Specific hazards during fire fighting          | In the event of a fire, irritating or toxic fumes or gases may be released.<br>If safe to do so, remove the product's container from the fire's vicinity.<br>If this is not possible, spray water around the area to cool it down. |
| Specific extinguishing methods                 | Standard procedure for chemical fires.   |
| Special protective equipment for fire-fighters | Use personal protective equipment.   |

## 6. Accidental release measures

|   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | Use personal protective equipment.<br>Remove all sources of ignition.   |
| Environmental precautions   | Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities.              |
| Methods and materials for containment and cleaning up               | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal. |

## 7. Handling and storage

### Handling

|   |  |
|---|--|
| Advice on protection against fire and explosion | No information available.  |
| Advice on safe handling                         | Wash skin thoroughly after handling.<br>Do not eat, drink or smoke when using this product.<br>Use only in area provided with appropriate exhaust ventilation. |
| Avoidance of contact                            | Humidity, heat   |
| Hygiene measures                                | When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.   |

### Storage

|  |   |
|--|---|
| Conditions for safe storage              | Keep in a well-ventilated place.<br>Store at room temperature.<br>To maintain product quality, do not store in heat or direct sunlight.<br>Keep container tightly closed. |
| Further information on storage stability | No decomposition if stored and applied as directed.   |

## 8. Exposure controls/Personal protection

Threshold limit value and permissible exposure limits for each component in the work environment

Contains no substances with occupational exposure limit values.

Personal protective equipment

|                          |                                |
|--------------------------|--------------------------------|
| Respiratory protection   | Suitable respiratory equipment |
| Hand protection material | Protective gloves              |
| Eye protection           | Safety glasses                 |
| Skin and body protection | Protective suit                |

## 9. Physical and chemical properties

|  |                                |
|--|--------------------------------|
| Physical state   | Crystalline, powder            |
| Color  | White                          |
| Odor   | No data available              |
| Melting point / Freezing point                                       | No data available              |
| Initial boiling point and boiling range                              | No data available              |
| Flammability (liquids)   | No data available              |
| Lower explosion limit and upper explosion limit / flammability limit |                                |
| Upper explosion limit / Upper flammability limit                     | No data available              |
| Lower explosion limit / Lower flammability limit                     | No data available              |
| Flash point  | No data available              |
| Decomposition temperature  | No data available              |
| pH   | 10.01 (aqueous solution, 25°C) |
| Autoignition temperature   | No data available              |
| Self-Accelerating decomposition temperature (SADT)                   | No data available              |
| Viscosity  |                                |
| Viscosity, kinematic   | No data available              |
| Solubility(ies)  |                                |
| Water solubility   | Easy to dissolve               |

|  |                   |
|--|-------------------|
| Solubility in other solvents                       | No data available |
| Partition coefficient: n-octanol/water             | No data available |
| Vapor pressure                                     | No data available |
| Density and / or relative density Relative density | No data available |
| Relative vapor density                             | No data available |
| Particle characteristics Particle size             | No data available |

## 10. Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | No decomposition if stored and applied as directed. |
| Chemical stability                 | Stable under normal conditions.                     |
| Possibility of hazardous reactions | No data available                                   |
| Conditions to avoid                | Extreme temperatures and direct sunlight            |
| Incompatible materials             | Strong oxidizing agents                             |
| Hazardous decomposition products   | Carbon monoxide, Carbon dioxide                     |

## 11. Toxicological information

|                                   |  |
|-----------------------------------|--|
| Acute toxicity                    | Harmful if inhaled   |
| Skin corrosion/irritation         | Not classified based on available information.                         |
| Serious eye damage/eye irritation | Serious eye damage   |
| Respiratory or skin sensitization |  |
| Skin sensitization                | Not classified based on available information.                         |
| Respiratory sensitization         | Not classified based on available information.                         |
| Germ cell mutagenicity            | Not classified based on available information.                         |
| Carcinogenicity                   | Not classified based on available information.                         |
| Reproductive toxicity             | Not classified based on available information.                         |
| STOT-single exposure              | May cause drowsiness or dizziness.<br>May cause respiratory irritation |
| STOT-repeated exposure            | Not classified based on available information.                         |
| Aspiration toxicity               | Not classified based on available information.                         |
| Remarks                           | No data available  |

## 12. Ecological information

|                               |   |
|-------------------------------|---|
| Ecotoxicity                   | No data available   |
| Persistence and degradability | Decomposition rate: 0% by BOD (Ministry of Economy, Trade and Industry Existing Chemical Substance Safety Inspection) |

|                              |                   |
|------------------------------|-------------------|
| Bioaccumulative potential    | No data available |
| Mobility in soil             | No data available |
| Hazardous to the ozone layer | Not applicable    |
| Other adverse effects        | No data available |

### 13. Disposal considerations

|                        |  |
|------------------------|--|
| Waste from residues    | Can be incinerated, when in compliance with local regulations.<br>Send to a licensed waste management company.   |
| Contaminated packaging | Empty remaining contents.<br>Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>Dispose of contents/ container to an approved waste disposal plant. |

### 14. Transport information

International Regulations

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

Please refer to the law and local regulations, etc. in each country

Special precautions for user

Not applicable

### 15. Regulatory information

### 16. Other information

Citations/References

NITE-Gmiccs (National Institute of Technology and Evaluation)

NITE-CHRIP (National Institute of Technology and Evaluation)

Workplace Safety Site (Ministry of Health, Labor and Welfare)

SDS from various upstream manufacturers

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