# SAFETY DATA SHEET

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| PRODUCT NAME | Carbonate pH Buffer Powder (pH10.01) | Data of issue | 28/2/2013 |
| | | Date of revision/ Last Confirmation | 8/9/2024 |

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

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|---|---|
| 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 |

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

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| 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

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| 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

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|---|---|
| Prevention | P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| Response | P305 + P351 + P338 IF in eyes: Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue cleaning after that.<br>P308+P311 IF exposed or concerned Call a POISON CENTER/doctor.<br>P310 Immediately call a POISON CENTER/ doctor. |
| Other hazards which do not result in classification | None known. |

## 3. Composition/Information on ingredients

substance / mixture mixture

Components

| No. | Chemical name | CAS No. | Concentration (% w/w) | ENCS / ISHL number |
|---|---|---|---|---|
| 1 | Sodium carbonate | 497-19-8 | >=49.5 | (1)-164 |
| 2 | Sodium hydrogen carbonate | 144-55-8 | >=49.5 | (1)-164 |

## 4. First-aid measures

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|---|---|
| General advice | Do not leave the victim unattended. |
| If inhaled | Remove victim to fresh air.<br>Call a doctor/physician if you feel unwell. |
| In case of skin contact | Wash off with soap and plenty of water.<br>If symptoms persist, contact a physician. |
| In case of eye contact | Rinse cautiously with water for several minutes.<br>Remove contact lenses, if present and easy to do. Continue rinsing.<br>Contact a physician immediately. |
| If swallowed | Rinse mouth with water.<br>Do NOT induce vomiting.<br>Never give anything by mouth if unconscious.<br>If large quantities of this material are swallowed, call a physician immediately. |
| Most important symptoms and effects, both acute and delayed | No information |
| Notes to physician | Treat symptomatically. |

## 5. Fire-fighting measures

| | |
|---|---|
| Suitable extinguishing media | Water |
| | Carbon dioxide ($CO_2$) |
| | Regular foam |
| | 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. |
| | If safe to do so, remove the product's container from the fire's vicinity. |
| | 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

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|---|---|
| Personal precautions, protective equipment and emergency procedures | Use personal protective equipment. |
| | Remove all sources of ignition. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. |
| | 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). |
| | 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. |
| | Do not eat, drink or smoke when using this product. |
| | Use only in area provided with appropriate exhaust ventilation. |
| Avoidance of contact | Humidity, heat |
| Hygiene measures | When using do not eat or drink. |
| | When using do not smoke. |
| | 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

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| 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

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|---|---|
| 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

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|---|---|
| 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

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

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| 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

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|---|---|
| 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.

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| 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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