


# SAFETY DATA SHEET

|              |                                   |                  |           |
|--------------|-----------------------------------|------------------|-----------|
| PRODUCT NAME | <b>KEM AQUA Water Standard 10</b> | Data of issue    | 6/11/2018 |
|              |                                   | Date of revision | 2/4/2024  |
|              |                                   | (Confirmation)   |           |

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

|  |   |
|--|---|
| Product name                             | KEM AQUA Water Standard 10  |
| SDS No.                                  | GHS-0077E   |
| 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  |  |
| Serious eye damage / Eye irritation   | Category 2A  |
| GHS label elements  |  |
| Hazard pictograms   |  |
|  |  |
| Signal words  | Warning  |
| Hazard statements   | H319 Causes serious eye irritation   |
| Precautionary statement   |  |
| Prevention  | P264 Wash skin thoroughly after handling.<br>P280 Wear eye protection / face protection.   |
| Response  | P305+P351+P338 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337+P313 If eye irritation persists: Get medical advice / |



|  |   |
|--|---|
|  | Vermiculite   |
| Unsuitable extinguishing media                 | High volume water jet   |
| Specific extinguishing methods                 | Standard procedure for chemical fires.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| 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.   |
| 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 | Normal measures for preventive fire protection.   |
| Advice on safe handling                         | Smoking, eating and drinking should be prohibited in the application area.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>Avoid inhalation of vapor or mist.<br>Take precautionary measures against static discharges. |
| Avoidance of contact                            | No data available   |
| 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 container tightly closed.<br>Keep in a well-ventilated place.<br>Store at room temperature.<br>To maintain product quality, do not store in heat or direct sunlight. |
| 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   | Liquid.                    |
| Color  | colorless, transparent     |
| Odor   | none                       |
| Melting point / Freezing point                                       | - 49°C                     |
| Initial boiling point and boiling range                              | 242°C                      |
| 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  | 134°C (Cleveland open cup) |
| Decomposition temperature  | No data available          |
| pH   | No data available          |
| Autoignition temperature   | 510°C                      |
| Self-Accelerating decomposition temperature (SADT)                   | No data available          |
| Viscosity  |                            |
| Viscosity, kinematic   | No data available          |
| Solubility(ies)  |                            |
| Water solubility   | 83 g/L (20°C)              |
| Partition coefficient: n-octanol/water                               | No data available          |
| Vapor pressure   | No data available          |
| Density and / or relative density Relative density                   | 1.206 (20°C)               |
| 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                | No data available                                   |
| Incompatible materials             | No data available                                   |
| Hazardous decomposition products   | No data available                                   |

## 11. Toxicological information

|                                   |   |
|-----------------------------------|---|
| Acute toxicity                    | Not classified based on available information.                |
| propylene carbonate               |   |
| Acute oral toxicity               | LD50 (Rat) >5,000mg/kg  |
| Acute inhalation toxicity         | LC0 (Rat) 0.041mg/L, Exposure time 8 h, Test atmosphere vapor |
| Acute dermal toxicity             | LD50 (Rabbit) >20,000mg/kg<br>LD50 (Rabbit) >3,000mg/kg       |
| Skin corrosion/irritation         | Not classified based on available information.                |
| Product                           | May cause skin irritation in susceptible persons.             |
| Serious eye damage/eye irritation | Causes serious eye irritation.                                |
| Product                           | Causes serious eye irritation.                                |
| propylene carbonate               | Causes serious eye irritation.                                |
| 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              | Not classified based on available information.                |
| 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         |   |
| propylene carbonate |   |
| Toxicity to fish    | LC50 (Cyprinus carpio (Carp)) >1,000 mg/L, Exposure time 96 h |

|   |   |
|---|---|
| Toxicity to daphnia and other aquatic invertebrates | EC50 (Daphnia magna (Water flea)) >1,000 mg/L, Exposure time 48 h<br>Tested according to Directive 92/69/EEC. |
| Toxicity to algae/aquatic plants                    | EC50 (Desmodesmus subspicatus (green algae)) >900 mg/L, Exposure time 72 h                                    |
| Persistence and degradability                       |   |
| propylene carbonate                                 | rapidly biodegradable, Biodegradation 92 %, Exposure time 28 d (OECD Test Guideline 301C), GLP yes            |
| Bioaccumulative potential                           |   |
| propylene carbonate                                 | Partition coefficient: n-octanol/water log Pow = - 0.41   |
| 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

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.