

SAFETY DATA SHEET

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| PRODUCT NAME | KEM AQUA Solid Standard 5.5 | Data of issue | 8/2/2011 |
| | | Date of revision/ Last confirmation | 10/9/2024 |

1. Identification of the substance or mixture and the supplier

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| Product name | KEM AQUA Solid Standard 5.5 |
| SDS No. | GHS-0095E |
| 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

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| GHS classification | Not a hazardous substance or mixture according to the Globally Harmonized System (GHS). |
| GHS label elements | Not a hazardous substance or mixture according to the Globally Harmonized System (GHS). |
| Other hazards which do not result in classification | |
| Important symptoms and outlines of the emergency assumed | None known. |

3. Composition/Information on ingredients

substance / mixture substance

Components

| No. | Chemical name | CAS No. | Concentration (% w/w) | ENCS / ISHL number |
|-----|----------------------------------|-----------|--------------------------|-----------------------|
| 1 | Tripotassium citrate monohydrate | 6100-05-6 | 100 | 2-1323 |

4. First-aid measures

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| General advice | Do not leave the victim unattended. |
| If inhaled | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. |
| In case of skin contact | Wash off with soap and plenty of water. If skin irritation or rash occurs: Get medical advice/ attention. |
| In case of eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| If swallowed | Rinse mouth with water. Do NOT induce vomiting. If large quantities of this material are swallowed, call a physician immediately. |
| Most important symptoms and effects, both acute and delayed | None known. |
| Notes to physician | Treat symptomatically. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water Carbon dioxide (CO ₂) Regular foam Dry sand |
| Unsuitable extinguishing media | None known. |
| Specific hazards during fire fighting | No information available. |
| 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

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| Advice on protection against fire and explosion | Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition. |
| Advice on safe handling | Take precautionary measures against static discharges. Keep away from fire, sparks and heated surfaces. 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 | Strong oxidizing agents |
| 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

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| Conditions for safe storage | Keep in a well-ventilated place. Store at room temperature. To maintain product quality, do not store in heat or direct sunlight. Keep container tightly closed. |
| Materials to avoid | No materials to be especially mentioned. |
| 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 |

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|--|----------------------------|
| Odor | No data available |
| Melting point / Freezing point | 57 °C |
| 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 | 7.8 - 8.6 (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 | soluble |
| Solubility in other solvents | slightly soluble (Ethanol) |
| Partition coefficient: n-octanol/water | No data available |
| Vapor pressure | No data available |
| Density and / or relative density Relative density | No data available |
| 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 | None known. |
| Conditions to avoid | Extreme temperatures and direct sunlight |
| Incompatible materials | Strong oxidizing agents |
| Hazardous decomposition products | carbon monoxide (CO), Carbon dioxide (CO ₂) |

11. Toxicological information

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| Acute toxicity | Not classified based on available information. |
| Skin corrosion/irritation | Not classified based on available information. |

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| Serious eye damage/eye irritation | Not classified based on available information. |
| 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

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|-------------------------------|-------------------|
| Ecotoxicity | No data available |
| Persistence and degradability | No data available |
| 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. Send to a licensed waste management company. |
| Contaminated packaging | Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of contents/ container to an approved waste disposal plant. |

14. Transport information

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| 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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