

SAFETY DATA SHEET

PRODUCT NAME KEM AQUA Water Standard 0.1

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 0.1

SDS No. GHS-0101E

Name of supplier Kyoto Electronics Manufacturing Co., Ltd.

Address 68 Ninodan-cho, Shinden, Kisshoin, Minami-ku, Kyoto, Japan

Division Quality Assurance Department

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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.

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.

P337+P313 If eye irritation persists: Get medical advice /



attention.

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	ENCS / ISHL
			(% w/w)	number
1	Propylene carbonate	108-32-7	99.99	5-524
2	Water	7732-18-5	0.01	-

4. First-aid measures

General advice Move out of dangerous area.

Show this material safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled No information available.

In case of skin contact No information available.

In case of eye contact Remove contact lenses, if present and easy to do. Continue rinsing.

Rinse cautiously with water for several minutes.

If eye irritation persists: Get medical advice/ attention.

If swallowed Do NOT induce vomiting.

Rinse mouth.

If accidentally swallowed obtain immediate medical attention.

Most important symptoms

Causes serious eye irritation.

and effects, both acute and

delayed

5. Fire-fighting measures

Suitable extinguishing media Carbon dioxide (CO2)

Dry sand

Regular foam



Vermiculite

Unsuitable extinguishing media High volume water jet

Specific extinguishing methods Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Special protective equipment for

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Use personal protective equipment.

fire-fighters

6. Accidental release measures

Personal precautions, Use personal protective equipment.

protective equipment and Remove all sources of ignition.

emergency procedures

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods and materials for Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal

containment and cleaning binder, sawdust).

up Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling

Advice on protection against fire and Normal measures for preventive fire protection.

explosion

Advice on safe handling Smoking, eating and drinking should be prohibited in the application

area.

Provide sufficient air exchange and/or exhaust in work rooms.

Avoid inhalation of vapor or mist.

Take precautionary measures against static discharges.

Avoidance of contact No data available

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 container tightly closed.

Keep in a well-ventilated place.

Store at room temperature.

To maintain product quality, do not store in heat or direct sunlight.

Further information on storage No decomposition if stored and applied as directed.



stability

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° Initial boiling point and boiling range 242°

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 No data available
Autoignition temperature No data available
Self-Accelerating decomposition temperature No data available

(SADT) Viscosity

Viscosity, kinematic No data available

Solubility(ies)

Water solubility

Partition coefficient: n-octanol/water

Vapor pressure

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

Conditions to avoid

Incompatible materials

Hazardous decomposition products

No data available

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

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. Not classified based on available information. Reproductive toxicity 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 EC50 (Daphnia magna (Water flea)) >1,000 mg/L, Exposure time 48 h

other aquatic invertebrates Tested according to Directive 92/69/EEC.

Toxicity to algae/aquatic EC50 (Desmodesmus subspicatus (green algae)) >900 mg/L, Exposure time 72 h

plants

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 Not applicable

layer

Other adverse effects No data available

13. Disposal considerations

Waste from Can be incinerated, when in compliance with local regulations.

residues Send to a licensed waste management company.

Contaminated Empty remaining contents.

packaging 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

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.

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