

SAFETY DATA SHEET

PRODUCT NAME	KEM AQUA Water Standard 1	Data of issue	6/11/2018
		Date of revision/ Last confirmation	3/4/2025

1. Identification of the substance or mixture and the supplier

Product name	KEM AQUA Water Standard 1
SDS No.	GHS-0078E
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

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 (% w/w)	ENCS / ISHL number
1	Propylene carbonate	108-32-7	99.9	5-524
2	Water	7732-18-5	0.1	–

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 and effects, both acute and delayed

Causes serious eye irritation.

Notes to physician

Treat symptomatically.

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 fire-fighters	Use personal protective equipment.

6. Accidental release measures

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.
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	Normal measures for preventive fire protection.
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.
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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	- 49.0 °C
Initial boiling point and boiling range	242.0 °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	134.0 °C (Cleveland open cup)
Decomposition temperature	No data available
pH	No data available
Autoignition temperature	510.0 °C
Self-Accelerating decomposition temperature (SADT)	No data available
Viscosity	
Viscosity, kinematic	No data available
Solubility(ies)	
Water solubility	83 g/L (20 °C)
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	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 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 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

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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