

# SAFETY DATA SHEET

 PRODUCT NAME **KEM AQUA Water Standard 0.2**

 Date of issue **06/26/2012**

 Date of revision **-**
**1 Identification of the substance or mixture and the supplier**

Product name:	KEM AQUA Water Standard 0.2
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 No.:	+81-75-691-4125
MSDS No.	GHS-0079E

**2 Hazard identification**
**GHS hazard class and category**

Physical hazards;	Flammable liquids:	Not classified
	Pyrophoric liquids:	Not classified
Health hazards;	Acute toxicity (oral):	Not classified
	Skin corrosion/irritation	Category 2
	Eye damage/irritation:	Category 2B

Other hazard identification are not shown above because of the reasons below;  
 Not applicable / Classification not possible

**Label elements**
**Pictogram**


Signal word:	Warning
Hazard statements:	Causes skin irritation Causes eye irritation

**Precautionary statements:**

Prevention	Wear protective gloves. Wash thoroughly after handling.
Response	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs, seek medical advice/attention.  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice /attention. Wash hands after handling.

**3 Composition/Information on ingredients**

Substance/Mixture: Mixture

Ingredient name	Composition (%)	Chemical formula	CAS No.
Propylene carbonate	99.98	C <sub>4</sub> H <sub>6</sub> O <sub>3</sub>	108-32-7
Water	0.02	H <sub>2</sub> O	7732-18-5

#### 4 First-aid measures

Inhalation:	Move victim to fresh air. If irritation persists, transport to a hospital immediately.
Skin contact:	Wash affected area with soap and water. Get medical attention if irritation occurs.
Eye contact:	In case of contact with eyes, irrigate with water for 15 minutes, carefully separating the eyelids to ensure that water reaches all parts. Seek medical advice, especially if irritation occurs or symptoms persist.
Ingestion:	Rinse mouth, give plenty of water to dilute the substance. Transport to a hospital immediately.
Most important symptoms:	No specific remarks.
Protections for first-aid persons:	In case of first-aid, rescuer should wear proper protections according to situations.

#### 5 Fire-fighting measures

Extinguishing media:	Carbon dioxide, dry chemical powder, alcohol resistant foam, water
Incompatible extinguishing media:	Pressurized water
Specific hazards arising from the chemical (and with regard to fire-fighting measures):	When burned, may product irritating and toxic gases.
Specific fire-fighting measures:	Fight the fire from a windward direction.
Special protective equipment and precautions for fire-fighters:	Fire fighters should wear an approved self-contained breathing apparatus and full protective clothing.

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Wear proper protective equipment. If indoors, keep the area ventilated in use. If outdoors, must be used at windward side. Let the person evacuate from downwind side.
Environmental precautions:	Attention should be given not to cause damage to the environment by flowing of spillage to rivers.
Measures and materials for containment and clean up:	In case of leakage, collect in an airtight container and dispose of it properly as industrial waste.

#### 7 Handling and storage

Precautions for safe handling:

- Countermeasure technique(s): Use only in well-closed facilities or local exhaust area. Remove sources of sparks and ignition. Take precautionary measures against static discharges.
- Preventive measures: The working area must be ventilated well in use. Emitted vapour or dust must not be breathed.
- Safety measures/ incompatibility: Do not shock, overturn, drop, or drag containers.

Conditions for safe storage, including any incompatibilities:

- Recommendation for storage: Keep away from direct sunlight. Must be stored indoors. The room must be kept well-ventilated. Must be stored under room temperature. In case of storage, air tightened container must be used. For the long-term preservation stability, it is desirable to save in a refrigerator.
- Recommendation on container and packaging materials: Glass

8 Exposure controls/Personal protection

Appropriate engineering controls: Keep source tightly closed or install local exhaust ventilation. Provide shower and vanity unit nearby and make clear the location of these.

	Propylene carbonate	Water
Control value	Not established.	Not established.
Adopted value ACGIH	Not established.	Not established.

Individual protection measures, such as personal protective equipment (PPE):

- Respiratory protector: Wear positive pressure self-contained breathing apparatus (SCBA). Respirator for organic vapour.
- Hand protection: Wear impervious glove made from chloroprene, as appropriate.
- Eye/face protection: Wear protective eyeglasses or chemical safety goggles.
- Skin and body protector: To prevent any contact, wear impervious clothing such as apron, boots, or whole-body suits made from chloroprene, as appropriate.

9 Physical and chemical properties

- Appearance, color: Colorless and Clear liquid
- Odor: Odor-free
- pH: No data available
- Melting point/freezing point: -49C
- Boiling point: 242C
- Flash point: 134C (C.O)
- Auto-ignition temperature: 510C
- Upper/lower flammability or explosive limits: No data available
- Vapour pressure: No data available

Vapour density (Air = 1):	No data available
Specific gravity (Density):	1.206 (20C)
Solubility	Solubility to water 8.3%
Octanol/water partition coefficient (log Pow)	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

10 Stability and reactivity

Chemical stability:	Stable under normal storage conditions.
Possibility of hazardous reactions:	No data available
Conditions to avoid:	Not specified
Incompatible materials:	No data available
Hazardous decomposition products:	No data available

11 Toxicological information

No data for this product. For reference, the information of each ingredient is as follows.

	Propylene carbonate
Acute toxicity -oral LD50(mg/kg)	(rat) 29100
	-
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Skin corrosion/irritation	Moderate (rabbit)
Eye damage/irritation	Moderate (rabbit)
Respiratory or Skin Sensitization	-
Germ sell mutagenicity	-
Carcinogenicity	-
Toxic to reproduction	-
STOT- single exposure	-
STOT- repeated exposure	-
Asporation toxicity	-

12 Ecological information

No data for this product. For reference, the information of each ingredient is as follows.

	Propylene carbonate
Biotransportability	No data available
Persistence and degradability	Degradable
Bioassumulative potential	No data available
Ecotoxicity LC50(mg/L)	>1000 (carp: 96H)
Fish toxicity	No data available

13 Disposal considerations

Contact a licensed professional waste disposal service to dispose of this material. Comply with all country, national and local regulations. Do not dump this product into sewers, on the ground or into any body of water.

14 Transport information

Basic classification information for the transporting/shipment:

Sea; Not controlled under IMDG' s regulations.



Air; Not controlled under ICAO/IATA' s regulations.

Special precautions which a user needs to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises:

Protection from direct sun light in transportation, and confirm the container does not leak.

Carefully load it onto a transporter without dropping, overturning or damaging so that it will stably stays on the transporter.

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15 Regulatory information

Follow all laws and regulations in your country.

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16 Other information

Bibliography:

RTECS (June.2008)

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Disclaimer

For R&D use only. Not for drug, household or other uses.

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.