

GHS-0076E

SAFETY DATA SHEET

PRODUCT NAME KEM AQUA Check Solution 4

Data of issue 06/26/2012

Date of revision

1 Identification of the substance or mixture and the supplier

Product name: KEM AQUA Check Solution 4

Name of supplier: Kyoto Electronics Manufacturing Co., Ltd.

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

Division: Quality Assurance Department

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2 Hazard identification

MSDS No.

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	99.6	C4H6O3	108-32-7
Water	0.4	H2O	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

In case of leakage, collect in an airtight container and dispose of it

ean properly as industrial waste.

up

7 Handling and storage



Precautions for safe handling:

Countermeasure Use only in well-closed facilities or local exhaust area. Remove

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

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

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

To prevent any contact, wear impervious clothing such as apron, protector:

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 510C

temperature:

Upper/lower flammability

or explosive limits:

No data available

Vapour pressure: No data available

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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

No data available

Decomposition temperature:

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 No data available

products:

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
	_
	_
Skin corrosion/irritation	Moderate (rabbit)
Eye damage/intation	Moderate (rabbit)
Respiratory or Skin Sensitization	_
Germ sell mutagenisity	_
Carcinogenicity	_
Toxic to reproduction	_
STOT- single exsposure	_
STOT- repeated exsposure	_
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.

15 Regulatory information

Follow all laws and regulations in your country.

16 Other information

Bibliography:

RTECS (June.2008)

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.