

# SAFETY DATA SHEET

PRODUCT NAME KEM AQUA Check Solution 4

Data of issue

6/11/2018

Date of revision/ Last confirmation

10/9/2024

### 1. Identification of the substance or mixture and the supplier

Product name KEM AQUA Check Solution 4

SDS No. GHS-0076E

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

**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	99.6	5-524
2	Water	7732-18-5	0.4	-

#### 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.

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 Rinse mouth.

If swallowed, DO NOT induce vomiting.

Take victim immediately to hospital.

Most important symptoms Ca

Causes serious eye irritation.

and effects, both acute and

delayed

## 5. Fire-fighting measures

Suitable extinguishing media Carbon dioxide (CO<sub>2</sub>)

Dry sand

Regular foam

Vermiculite

Unsuitable extinguishing media High volume water jet



Specific hazards during fire Do not allow run-off from fire fighting to enter drains or water courses.

fighting

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, 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.

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for

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

containment and cleaning up binder, sawdust).

Keep in suitable, closed containers for disposal.

### 7. Handling and storage

Handling

Advice on protection against fire and Take necessary action to avoid static electricity discharge (which might

explosion 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 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 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.

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 odorless Melting point / Freezing point - 49.0  $^{\circ}$ C Initial boiling point and boiling range 242  $^{\circ}$ 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 139 ℃ (Cleveland open cup)

Decomposition temperature No data available pH No data available

Autoignition temperature 510.0 ℃

Self-Accelerating decomposition temperature No data available

(SADT)

Solubility(ies)

Water solubility 83 g/L

Partition coefficient: n-octanol/water

Vapor pressure

Density and / or relative density Relative density

Density

No data available

1.206 (20 ℃)

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 decomposition if stored and applied as directed.

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.

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. Not classified based on available information. Respiratory sensitization Germ cell mutagenicity Not classified based on available information. Carcinogenicity Not classified based on available information. Reproductive toxicity Not classified based on available information. 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

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

plants h

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

### 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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