

GHS-0075E

SAFETY DATA SHEET

PRODUCT NAME KEM AQUA Water-Methanol 2

Data of issue 0

06/26/2012

Date of revision

1 Identification of the substance or mixture and the supplier

Product name: KEM AQUA Water-Methanol 2

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: Category 2

Pyrophoric liquids: Not classified

Corrosive to metals: Not classified

Health hazards; Acute toxicity (oral): Category 5

Acute toxicity (dermal):

Acute toxicity (inhalation):

Eye damage/irritation:

Germ cell mutagenicity:

Toxic to reproduction:

Not classified

Not classified

Category 2A

Not classified

Category 1B

Specific target organ systemic Category 1

toxicity (single exposure): (Central nervous system,

Visual organ, Systemic

toxicity)
Category 3

(Respiratory tract irritation,

Narcotic)

Specific target organ systemic Category 1

toxicity (repeated exposure): (Central nervous system,

Visual organ)

Environmental hazards; hazardous to the aquatic environment Not classified

-Acute hazard:

hazardous to the aquatic environment Not classified

-Chronic hazard:

Other hazard identification are not shown above because of the reasons below;

Not applicable / Classification not possible



Label elements

Pictogram







Signal word: Danger

Hazard statements: Highly flammable liquid and vapour

May be harmful if swallowed Causes serious eye irritation

May damage fertility or the unborn child

Cause damage to organs (Central nervous system, Visual organ,

Systemic toxicity)

May cause respiratory irritation; or May cause drowsiness and

dizziness

Cause damage to organs (Central nervous system, Visual organ)

through prolonged or repeated exposure

Precautionary statements:

Prevention Keep container tightly closed. Keep away from ignition sources such

as heat/sparks/open flame. -No smoking. Wear protective

gloves/clothing/eye/face protection. Ground/bond container and receiving equipment. Use explosion-proof. Take precautionary measures against static discharge. Use only non-sparking tools.

Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood.

Do not eat, drink or smoke when using this product. Wash hands

thoroughly after handling. Do not breathing dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Response In case of fire, use for extinction appropriate media.

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.

If exposed or concerned: Get medical attention/ advice.

Get medical attention/advice if you feel unwell. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Storage Store locked up.

Store in cool/well-ventilated place.

Disposal Dispose of contents and container in accordance with regulation.

3 Composition/Information on ingredients

Substance/Mixture: Mixture

| Ingredient name | Composition (%) | Chemical formula | CAS No. |
|-----------------|-----------------|------------------|-----------|
| Methanol | 99.7 | СНЗОН | 67-56-1 |
| Water | 0.3 | 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, product forms smoke and toxic fumes, gases or vapours.

Fire fighters should wear an approved self-contained breathing

Specific fire-fighting

measures:

Fight the fire from a windward direction.

Special protective equipment and precautions for

fire-fighters:

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 properly as industrial waste.

up:

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

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.

Recommendation on

container and packaging materials:

storage:

Glass

8 Exposure controls/Personal protection

engineering Keep source tightly closed or install local exhaust ventilation. Provide **Appropriate**

controls: shower and vanity unit nearby and make clear the location of these.

| | Methanol |
|---------------|--------------------|
| Control value | 200ppm |
| Adopted value | |
| | TWA: 200ppm |
| | STEL: 250ppm(2004) |

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: Characteristic odor pΗ No data available

Melting point/freezing

point

-94.8C

Boiling point 64.6C

Flash point 10.9C (T.C.C)

Auto-ignition 470C

temperature:

Upper/lower flammability 6-36.5%

or explosive limits:

Vapour pressure: 12.67 (20C 12.7kPa) Vapour density (Air = 1): No data available

Specific gravity (Density): 0.792 (20C)

Solubility Easily soluble in water, alcohol, ester, ketone

Octanol/water partition coefficient (log Pow)

No data available

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Decomposition

No data available

temperature:

Viscosity: No data available

10 Stability and reactivity

Chemical stability:

Stable under normal storage conditions.

Possibility of hazardous

reactions:

Flammable liquid

Conditions to avoid: Not specified

Incompatible materials: When contact to strong oxidizing compound, reactive violently.

Hazardous decomposition I

No data available

products:

11 Toxicological information

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

| | Methanol |
|-----------------------------------|-----------------------------|
| Acute toxicity -oral LD50(mg/kg) | (human) 1400 |
| | (rat) 7939 |
| -skin | (rabbit) 15800 |
| Skin corrosion/irritation | Classification not possible |
| Eye damage/intation | Category2A-2B (rabbit) |
| Respiratory or Skin Sensitization | Classification not possible |
| Germ sell mutagenisity | Not classified |
| Carcinogenicity | Classification not possible |
| Toxic to reproduction | Category1B |
| STOT- single exsposure | Category1,Category3 |
| STOT- repeated exsposure | Category1 |
| Asporation toxicity | Classification not possible |

12 Ecological information

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

| | Methanol |
|-------------------------------|----------------------|
| Biotransportability | No data available |
| Persistence and degradability | Degradable |
| Bioassumulative potential | No data a∨ailable |
| Ecotoxicity LC50(mg/L) | 901 (crustaces: 24H) |
| 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:

UN Number: 1230

UN Proper shipping

Methanol

name:

Class or Division: $3 \angle 6.1$ Packing group: II

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:

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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:

NITE GHS-DB

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.