

**Product name:**  
 KAOCER MD-P

# SAFETY DATA SHEET

## 1. Product and company identification

**Name of chemical (Product name):** KAOCER MD-P

**Product No.:** Z0001249

### Manufacturer/Importer/Distributor Information

#### Information on domestic manufacturer

**Company Name:** Kao Corporation  
**Address:** 1-3,Bunka 2-chome,Sumida-ku,Tokyo 131-8501 Japan  
**Telephone:** +81-3-5630-7700  
**Fax:** +81-3-5630-7889  
**Division:** Chemical Business  
**E-mail:** chemical@kao.co.jp

**Emergency telephone number:** 81-3-5630-7700

## 2. Hazard(s) identification

### GHS classification:

#### Environmental Hazards

Acute hazards to the aquatic environment	Category 1
Chronic hazards to the aquatic environment	Category 1

### GHS label elements

#### Pictograms:



**Signal Word:** Warning

**Hazard Statement:** Very toxic to aquatic life with long lasting effects.

**Prevention:** Wash thoroughly after handling. If needed, use personal protective equipment as required. Avoid release to the environment.

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**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. Collect spillage.

**Storage:** -

**Disposal:** Passed to a licensed waste contractor.

**Unknown toxicity - Environment**

Acute hazards to the aquatic environment 0 %  
 Chronic hazards to the aquatic environment 0 %

**3. Composition/information on ingredients**

**Mixtures**

**General information:** No data available.

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
Cationic polymer	Trade Secret			30 - 40%

**4. First-aid measures**

**Description of necessary first-aid measures**

**Inhalation:** Remove person to fresh air and keep comfortable for breathing.  
**Skin Contact:** Gently wash with plenty of soap and water.  
**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**Ingestion:** Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

**5. Fire-fighting measures**

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Powder, alcohol-resistant foam, water spray, carbon dioxide, sand

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**Unsuitable extinguishing media:** No data available.

**Specific hazards arising from the chemical:** Produce irritating or toxic gases in a fire.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible. Do not flow the materials causing adverse effects into the environment with effluent fire extinguishing agents. Product itself is non-combustible.

**Special protective equipment for fire-fighters:** Use goggles in combination with dust mask, and other protections as appropriate to situation. Risk of producing harmful gases such as carbon monoxide and sulfur oxides. Avoid inhalation of smoke or gases.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Use goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation.

**Methods and material for containment and cleaning up:** Small spills: Absorb spills with sand, inert absorbent, waste cloth or sawdust. Then wipe up remainder in waste cloth. Large spills: Dike spills and dispose of in safe area.

**Environmental Precautions:** Avoid release to the environment.

**Prevention of secondary hazards:** No data available.

**7. Handling and storage**

**Handling**

**Technical measures (e.g. Local and general ventilation):** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Safe handling advice:** Use an adequate ventilation. Wash thoroughly after handling. If needed, use personal protective equipment as required.

**Contact avoidance measures:** No data available.

**Hygiene measures:** No data available.

**Storage**

**Safe storage conditions:** Keep container tightly closed. Store in a well-ventilated place.

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**Safe packaging materials:** No data available.

**Storage Temperature:** No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

**Product:** None known.

### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Safety glasses  
**Hand Protection:** Material: Rubber gloves  
**Skin and Body Protection:** Full-body suit  
**Respiratory Protection:** Use as appropriate to situation.  
**Hygiene measures:** No data available.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

**Physical state:** liquid  
**Form:** Viscous liquid  
**Color:** Colorless to light yellow  
**Odor:** Slight characteristic odor  
**Odor Threshold:** No data available.  
**Freezing point:** No data available.  
**Boiling Point:** No data available.  
**Flammability:** No data available.

#### Upper/lower limit on flammability or explosive limits

**Explosive limit - upper:** No data available.

**Explosive limit - lower:** No data available.

**Flash Point:** No data available.

**Self Ignition Temperature:** No data available.

**Decomposition Temperature:** No data available.

**pH:** 4.56 3.5% solution

#### Viscosity

**Dynamic viscosity:** 203 mPa.s (50 °F/10 °C)

111 mPa.s (77 °F/25 °C)

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	74 mPa.s (104 °F/40 °C)
<b>Kinematic viscosity:</b>	No data available.
<b>Flow Time:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Very Soluble
<b>Solubility (other):</b>	Soluble in ethanol and methanol Poorly soluble in 2-propanol and insoluble in saturated hydrocarbons
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Density:</b>	1.092 g/ml (50 °F/10 °C) 1.087 g/ml (77 °F/25 °C) 1.081 g/ml (104 °F/40 °C)
<b>Relative vapor density:</b>	No data available.
<b>Particle characteristics</b>	
<b>Particle Size Distribution:</b>	No data available.

## 10. Stability and reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Stable in general.
<b>Possibility of hazardous reactions:</b>	Has no self-reactivity.
<b>Conditions to avoid:</b>	No data available.
<b>Incompatible Materials:</b>	No data available.
<b>Hazardous Decomposition Products:</b>	No data available.

## 11. Toxicological information

### Acute toxicity (list all possible routes of exposure)

<b>Oral</b>	
<b>Product:</b>	Classification not possible due to insufficient data.
<b>Dermal</b>	
<b>Product:</b>	Classification not possible due to insufficient data.
<b>Inhalation</b>	
<b>Product:</b>	Dusts, mists and fumes: Classification not possible due to insufficient data. Vapour: No data available. Not classified based on available data of component(s).

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**Skin Corrosion/Irritation**

Product: Classification not possible due to insufficient data.

**Serious Eye Damage/Eye Irritation**

Product: Classification not possible due to insufficient data.

**Respiratory or Skin Sensitization**

Product: Skin: No data available.  
Not classified based on available data of component(s).  
Respiratory: Classification not possible due to insufficient data.

**Carcinogenicity**

Product: Classification not possible due to insufficient data.

**IARC:**

No carcinogenic components identified

**NTP:**

No carcinogenic components identified

**JSOH:**

No carcinogenic components identified

**EU**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

Product: Classification not possible due to insufficient data.

**In vivo**

Product: Classification not possible due to insufficient data.

**Reproductive toxicity**

Product: Classification not possible due to insufficient data.

**Specific Target Organ Toxicity - Single Exposure**

Product: Classification not possible due to insufficient data.

**Specific Target Organ Toxicity - Repeated Exposure**

Product: Classification not possible due to insufficient data.

**Aspiration Hazard**

Product: No data available.

**Other effects:**

No data available.

**12. Ecological information**

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## Ecotoxicity:

### Acute hazards to the aquatic environment

#### Fish

Product: No data available.

#### Aquatic Invertebrates

Product: No data available.

#### Toxicity to Aquatic Plants

Product: No data available.

#### Components:

Poly(Methacryloyloxyethyl dimethyl ethylammonium ethylsulfate) Category 1: (99)

### Chronic hazards to the aquatic environment

#### Fish

Product: No data available.

#### Aquatic Invertebrates

Product: No data available.

#### Toxicity to Aquatic Plants

Product: No data available.

#### Components:

Poly(Methacryloyloxyethyl dimethyl ethylammonium ethylsulfate) Category 1: (21)

## Persistence and Degradability

#### Biodegradation

Product: No data available.

#### BOD/COD Ratio

Product: No data available.

## Bioaccumulative potential

#### Bioconcentration Factor (BCF)

Product: No data available.

#### Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

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**Hazardous to the ozone layer:** No data available.

**Further Information:** No data available.

### 13. Disposal considerations

**Disposal methods:** Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed waste contractor. Incinerate with little portions. Risk of producing harmful gases such as carbon monoxide and sulfur oxides.

**Contaminated Packaging:** No data available.

### 14. Transport information

#### International regulations

#### IMDG

UN Number:	UN 3082
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cationic polymer)
Transport Hazard Class(es)	
Class:	9
Label(s):	9
EmS No.:	F-A, S-F
Packing Group:	III
Limited quantity	5.00L
Excepted quantity	E1
Environmentally Hazardous:	Yes
Marine Pollutant:	Yes
Special precautions for user:	Not regulated.

#### IATA

UN Number:	UN 3082
UN Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (Cationic polymer)
Transport Hazard Class(es):	
Class:	9
Label(s):	9MI (Miscellaneous)
Packing Group:	III
Excepted quantity	E1
Environmentally Hazardous:	Yes
Marine Pollutant:	No
Special precautions for user:	Not regulated.
Other information	
Passenger and cargo aircraft:	Allowed. 964
Cargo aircraft only:	Allowed. 964

UN Proper Shipping Name (JP): 環境有害物質 (液体) (Cationic polymer)



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## National Regulations

**Domestic Standard:** In compliance with domestic law.

**Emergency Response Guide Number**171

## 15. Regulatory information

### Law concerning Pollutant Release and Transfer Register

Not Regulated

### Industrial Safety and Health Law

Not Regulated

### Poisonous and Deleterious Substances Control Act

Not Regulated

### Explosives Control Act:

Not Regulated

### High Pressure Gas Safety Act:

Not Regulated

### Fire Service Act:

Not applicable to dangerous materials / designated flammables.

### Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Not Regulated

### Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule:

Miscellaneous dangerous substances and articles

### Air Law, Enforcement Rule:

Miscellaneous dangerous substances and articles

### Act on Prevention of Marine Pollution and Maritime Disaster:

Pack transport, Marine pollutant

### Export Trade Control Order

Not Regulated

### Inventory Status:

US TSCA Inventory:	On or in compliance with the inventory
Canada DSL Inventory List:	Not in compliance with the inventory
Australia AICS:	Not in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Philippines PICCS:	Not in compliance with the inventory
China Inv. Existing Chemical Substances:	Not in compliance with the inventory
REACH (EU):	Contact us for information
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory

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## 16. Other Information

### Disclaimer:

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist. In the case of the product for fragrance, it's in accordance with the latest standard of IFRA within ordinary use. Contact with the supplier for detail information.

### Reference:

- Hazard communication of chemicals based on GHS -- Labelling and Safety Data Sheet (SDS) (JIS Z 7253 : 2019)
- International Chemical Safety Cards (ICSC) (Compiler's Guide) (1994)
- GHS guideline -- Labelling and Safety Data Sheet (2019) Japan Chemical Industry Association
- (21): Estimation
- (99): Internal study data