

**Product name:**  
 QUARTAMIN D-2345P

# SAFETY DATA SHEET

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

**Product name:**  
 QUARTAMIN D-2345P

**Product No.:** B0002646

**Recommended use of the chemical and restrictions on use**

**Recommended use:** Not known.

**Restrictions on use:** Not known.

### Manufacturer/Importer/Supplier/Distributor Information

#### 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
Contact division:	Chemical Business
E-mail:	chemical@kao.co.jp

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

## 2. Hazard(s) identification

### GHS classification

#### Physical Hazards

Flammable liquids	Category 3
Corrosive to metal	Category 1

#### Health Hazards

Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1

#### Unknown toxicity - Health

Acute toxicity, dermal	75 %
Acute toxicity, inhalation, dust or mist	85 %

#### Environmental Hazards

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

#### Unknown toxicity - Environment

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

## Label Elements

### Pictograms:



### Signal Word:

Danger

### Hazard Statement:

Flammable liquid and vapor.  
May be corrosive to metals.  
Causes severe skin burns and eye damage.  
Very toxic to aquatic life with long lasting effects.

## Precautionary Statements

### Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Keep only in original packaging. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

### Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor. In case of fire : Keep away from sources of ignition and use appropriate extinguishing media. Absorb spillage to prevent material damage. Collect spillage.

### Storage:

Store in a well-ventilated place. Keep cool. Store locked up. Store in corrosive resistant container with a resistant inner liner.

### Disposal:

Passed to a licensed waste contractor.

### Other hazards which do not result in GHS classification:

None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)
二烷基二甲基氯化銨 Dialkyldimethylammonium chlorides	-	68910-56-5	70 - 80%
異丙醇 Isopropyl alcohol	-	67-63-0	5 - 15%

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation:</b>	Remove person to fresh air and keep comfortable for breathing.
<b>Skin Contact:</b>	Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Ingestion:</b>	Rinse mouth. Do NOT induce vomiting.
<b>Personal Protection for First-aid Responders:</b>	No data available.

#### Most important symptoms and effects, both acute and delayed

<b>Symptoms:</b>	No data available.
<b>Hazards:</b>	No data available.

#### Indication of immediate medical attention and special treatment needed

<b>Treatment:</b>	Get medical attention if symptoms occur.
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### 5. Fire-fighting measures

#### Suitable (and unsuitable) extinguishing media

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

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

**Special hazards arising from the substance or mixture:** Produce irritating or toxic gases in a fire.

#### Special protective equipment and precautions for fire-fighters

**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.

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 phosgene. 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.

**Accidental release measures:**

Keep away from sources of ignition and prepare extinguishing media. Risk of slipping. Spilled material forms slippery floor.

**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.

## 7. Handling and storage

### Handling

**Technical measures:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Iron is apt to rust. Plant equipment should be treated with rust-resist.

**Local/Total ventilation:**

Use an adequate ventilation.

**Safe handling advice:**

Keep away from source of ignition. Avoid contact with skin and eyes. Do not inhale gases, vapors, aerosols, fume or mist. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using the product. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required.

**Contact avoidance measures:**

No data available.

### Storage

**Safe storage conditions:**

Store locked up. Keep away from source of ignition. Store in corrosive resistant container with a resistant inner liner. Keep container tightly closed. Store in a well-ventilated place.

**Safe packaging materials:**

No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values		Source
異丙醇 Isopropyl alcohol	TWA	400 ppm	983 mg/m3	TW_PEL (12 2003)
	STEL	500 ppm	1,228.75 mg/m3	TW_PEL (06 2014)

#### Engineering measures:

Iron is apt to rust. Plant equipment should be treated with rust-resist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use local exhaust ventilation.

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

Eye/face protection:	Safety goggles or Face shield
Hand Protection:	Material: Rubber gloves
Skin and Body Protection:	Full-body suit
Respiratory Protection:	Use chemical cartridge respirator for alkalines, 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:	Liquid
Color:	Pale yellow, clear
Odor:	Amine-like odor
Odor Threshold:	No data available.
Freezing point:	-1 °C/30 °F
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:	41 °C/106 °F (Setaflash Closed Cup)
Autoignition Temperature:	> 100 °C/212 °F
Decomposition Temperature:	No data available.
pH:	6 (1% solution)

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#### Viscosity

**Dynamic viscosity:** 340 mPa.s (20 °C/68 °F)  
 99 mPa.s (40 °C/104 °F)  
 46 mPa.s (60 °C/140 °F)

**Kinematic viscosity:** No data available.

**Flow Time:** No data available.

#### Solubility(ies)

**Solubility in Water:** Slightly Soluble

**Solubility (other):** Soluble in ethanol and methanol

Soluble in isopropyl alcohol

**Partition coefficient (n-octanol/water):** No data available.

**Vapor pressure:** No data available.

**Relative density:** No data available.

**Density:** 0.893 g/ml (20 °C/68 °F)  
 0.880 g/ml (40 °C/104 °F)  
 0.866 g/ml (60 °C/140 °F)

**Relative vapor density:** No data available.

#### Particle characteristics

**Particle Size:** No data available.

**Particle Size Distribution:** No data available.

### 10. Stability and reactivity

**Reactivity:** No data available.

**Chemical Stability:** No data available.

**Possibility of hazardous reactions:** May form flammable gas or vapor. May form explosive gas/air mixtures.

**Conditions to avoid:** No data available.

**Incompatible Materials:** No data available.

**Hazardous Decomposition Products:** No data available.

### 11. Toxicological information

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

##### Oral

**Product:** LD 50 (Rat): > 2,000 mg/kg Not classified  
 Not classified based on available data.

##### Dermal

**Product:** Classification not possible due to insufficient data.

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#### Inhalation

**Product:** Dust and mist: Classification not possible due to insufficient data.  
 Vapour: No data available.  
 Not classified based on available data of component(s).

#### Skin Corrosion/Irritation

**Product:** OECD TG404 Rabbit, 4 h: Corrosive undiluted

#### Serious Eye Damage/Eye Irritation

**Product:** No data available.

#### Components:

二烷基二甲基氯化銨 Category 1: (21)

Dialkyldimethylammonium  
 chlorides

異丙醇 Category 2: (87)

Isopropyl alcohol

#### Respiratory or Skin Sensitization

**Product:** Skin sensitization, GPMT Skin: (Guinea Pig): Negative  
 Skin: Not classified based on available data.  
 Respiratory: Classification not possible due to insufficient data.

#### Carcinogenicity

**Product:** Classification not possible due to insufficient data.

#### Germ Cell Mutagenicity

##### In vitro

**Product:** Ames test (TA98, TA100, TA1535, TA1537, TA1538) (OECD TG471):  
 Negative  
 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.

#### Components:

異丙醇 Category 3: narcotic effects: (87)

Isopropyl alcohol

#### 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.

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## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** LC 50 (Rainbow Trout, 96 h): 0.42 mg/l (OECD TG203)

##### Aquatic Invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

##### Components:

二烷基二甲基氯化銨      Category 1: (21)  
 Dialkyldimethylammonium  
 chlorides

#### Chronic hazards to the aquatic environment

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

##### Components:

二烷基二甲基氯化銨      Category 1: (21)  
 Dialkyldimethylammonium  
 chlorides

#### Persistence and Degradability

##### Biodegradation

**Product:** 58 % (28 d, OECD TG301B)

##### 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.

##### Other adverse effects:

No data available.



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### 13. Disposal considerations

**Disposal methods:** Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed waste contractor. This material is containing flammable materials. Be careful in case of incineration. Remove the contents completely in case of disposal of the container. Incinerate with little portions. Risk of producing harmful gases such as carbon monoxide and phosgene.

**Contaminated Packaging:** No data available.

### 14. Transport information

#### IATA

UN Number:	UN 2924
UN Proper Shipping Name:	Flammable liquid, corrosive, n.o.s.(Isopropanol, Quaternary Ammonium Chloride)
Transport Hazard Class(es)	
Class:	3
Label(s):	3, 8
Packing Group:	III
Passenger and cargo aircraft :	354
Limited quantity	None.
Excepted quantity	E1
Environmental Hazards	
Environmentally Hazardous:	Yes
Marine Pollutant:	No
Special precautions for user:	None.
Passenger and cargo aircraft:	Allowed. 354
Cargo aircraft only :	Allowed. 365

#### IMDG

UN Number:	UN 2924
UN Proper Shipping Name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S.(Isopropanol, Quaternary Ammonium Chloride)
Transport Hazard Class(es)	
Class:	3
Label(s):	3, 8
EmS No.:	F-E, S-C
Packing Group:	III
Limited quantity	5.00L
Excepted quantity	E1
Environmental Hazards	
Environmentally Hazardous:	Yes
Marine Pollutant:	Yes
Special precautions for user:	None.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
 Not applicable for product as supplied.

#### National Regulations

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

**Emergency Response Guide Number:** 132

## 15. Regulatory information

### National regulatory information:

**Regulations on Occupational Safety and Health Facilities**

**Standards for the Storage, Cleanup, Handling and Disposal of Industrial Waste.**

**Regulations on Labelling and Hazard Communication of Hazardous Chemicals**

**Rules on Road Traffic Safety**

**Standards of Permissible Exposure Limits in Workplace**

### Inventory Status:

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

## 16. Other Information

**Issue Date:** 2023.02.24

**Version #:** 1.0

### Organization that prepared the SDS and SDS Author:

**SDS Author:** Kao (Taiwan) Corporation  
10 F., No. 207, Sec 3, Pei-Hsin Rd., Hsin-Tien District, New Taipei City  
23143, Taiwan R.O.C.  
Chin chang, Wen (Director) TEL: 886-2-8665-1930

**Further Information:** No data available.

**References:** No data available.

**Revision Information** Not relevant.

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**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:**

(21): Estimation  
(87): EU CLP Regulation Annex VI