

SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): QUARTAMIN 24P

Product No.: B0002634

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

Intended Use: Quasi-drug use and cosmetic use, Additives for water based paint, Additives for textile products

Restrictions on use: Please refer to Sec.2, 4, 7, 8, 10 and 13.

Emergency telephone number: 81-3-5630-7700

2. Hazard(s) identification

GHS classification

Physical Hazards

Flammable liquids Category 3

Health Hazards

Acute toxicity (Oral)	Category 4
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Toxic to reproduction	Category 2
Specific Target Organ Toxicity - Single Exposure	Category 1 (Central nervous system, systemic toxicity)
Specific Target Organ Toxicity - Single Exposure	Category 3 (Respiratory tract irritation.)
Specific Target Organ Toxicity - Repeated Exposure	Category 1 (blood system)
Specific Target Organ Toxicity - Repeated Exposure	Category 2 (Respiratory system, Liver, Spleen)

Unknown toxicity - Health

Acute toxicity, inhalation, dust or mist 47.5 %

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.
 Harmful if swallowed.
 Causes severe skin burns and eye damage.
 Suspected of damaging fertility or the unborn child.
 Causes damage to organs.
 May cause respiratory irritation.
 Causes damage to organs through prolonged or repeated exposure.
 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/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. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. 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]. Immediately call a POISON CENTER or doctor. IF exposed or concerned: Call a POISON CENTER/doctor. Call a POISON CENTER/doctor if you feel unwell. In case of fire : Keep away from sources of ignition and use appropriate extinguishing media. Collect spillage.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Passed to a licensed waste contractor.

Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients

Mixtures

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
(Coconut oil alkyl)trimethylammonium chlorides	61789-18-2	YES	YES	20 - 30%
Isopropyl alcohol	67-63-0	YES	YES	15 - 25%

4. First-aid measures

Description of first aid measures

Inhalation: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER/doctor if you feel unwell.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

Personal Protection for First-aid Responders: No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Powder, alcohol-resistant foam, water spray, 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.

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: Keep away from sources of ignition and prepare extinguishing media. Do not use tools producing sparks

7. Handling and storage

Handling

Technical measures: Use explosion-proof electrical equipment and prevent from static electrocity. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

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. 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

Components	Type	Exposure Limit Values		Source
Isopropyl alcohol	CEILING	400 ppm	980 mg/m3	JPJSOH OEL (04 2007)
	TLV	200 ppm		JPISHL OEL (08 2006)
	TWA	200 ppm		ACGIH (2008)
	STEL	400 ppm		ACGIH (2008)

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses with side shield(Safety goggles or Face shield)

Hand Protection: Material: Chemical protective gloves

Skin and Body Protection: Chemical protective clothing.

Respiratory Protection: Use chemical cartridge respirator for organic solvents, 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: -11 °C/12 °F

Boiling Point: > 40 °C/104 °F

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:	30.5 °C/86.9 °F (Setaflash Closed Cup)
Auto-ignition temperature:	> 100 °C/212 °F
Decomposition Temperature:	No data available.
pH:	6.5 - 8.5 (20% aqueous solution)
Viscosity	
Dynamic viscosity:	No data available.
Kinematic viscosity:	No data available.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Soluble
Solubility (other):	Soluble in ethyl alcohol
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	0.935 g/ml at 25 °C/77 °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: ATEmix: 364 mg/kg

Dermal
Product: No data available.
Not classified based on available data of component(s).

Components:
(Coconut oil
alkyl)trimethylammonium
chlorides Category 3: (88)

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: No data available.

Components:
(Coconut oil
alkyl)trimethylammonium
chlorides Category 1C: (88)

Serious Eye Damage/Eye Irritation
Product: No data available.

Components:
(Coconut oil
alkyl)trimethylammonium
chlorides Category 1: (88)
Isopropyl alcohol Category 2: (87)

Respiratory or Skin Sensitization
Product: Skin: Classification not possible due to insufficient data.
Respiratory: Classification not possible due to insufficient data.

Carcinogenicity
Product: Classification not possible due to insufficient data.

IARC:
No carcinogenic components identified

ACGIH:
No carcinogens present or none present in regulated quantities

NTP:
No carcinogenic components identified

JSOH:

No carcinogenic components identified

EU

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: Ames test (TA98, TA100): Negative
 Classification not possible due to insufficient data.

In vivo

Product: Classification not possible due to insufficient data.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

Isopropyl alcohol Category 3: narcotic effects: (87)

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: Classification not possible due to insufficient data.

Other effects:

No data available.

12. Ecological information

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:

(Coconut oil alkyl)trimethylammonium chlorides Category 1: (88)

Chronic hazards to the aquatic environment

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Components:

(Coconut oil alkyl)trimethylammonium chlorides
Product: Category 1: (88)

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.

Hazardous to the ozone layer: Not Regulated

Further Information: No data available.

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

International regulations

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
Environmentally Hazardous:	Yes
Marine Pollutant:	Yes
Special precautions for user:	Not Regulated.

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
Excepted quantity	E1
Environmentally Hazardous:	Yes
Marine Pollutant:	No
Special precautions for user:	Not Regulated.
Other information	
Passenger and cargo aircraft:	Allowed. 354
Cargo aircraft only:	Allowed. 365

UN Proper Shipping Name (JP): その他の引火性液体(腐食性のもの)(他に品名が明示されているものを除く。)(Isopropanol, Quaternary Ammonium Chloride)

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**Industrial Safety and Health Law****Dangerous substances**

Flammable materials

Specified Substances Regulation**Class 1 designated chemical substances:**

Not Regulated

Class 2 designated chemical substances:

Not Regulated

Class 3 designated chemical substances:

Not Regulated

Organic Solvent Regulation**Class 2 organic solvents:**

Isopropyl alcohol

Ordinance on Prevention of Lead Poisoning:

Not Regulated

Ordinance on Prevention of Tetraalkyl Lead Poisoning:

Not Regulated

Notifiable substances (wt% is sometimes described by range because it's CBI.):

Propyl alcohol 15 - 25%

Labeling substances:

Propyl alcohol

Confirmed mutagens among the notified chemical substances:

Not Regulated

Confirmed mutagens among the existing chemical substances:

Not Regulated

Confirmed carcinogenic chemical substances:

Not Regulated

Industrial Safety and Health Ordinance, Art. 326, Corrosive Liquid:

Regulated

Poisonous and Deleterious Substances Control Act

Not Regulated

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.**Class I specified chemical substances:**

Not Regulated

Class II specified chemical substances:

Not Regulated

Monitoring chemical substances:

Not Regulated

Priority Assessment Chemical Substances (PACs):

ISOPROPYL ALCOHOL

Salt of N,N,N-trimethyldodecane-1-aminium

Salt of hexadecyl(trimethyl)ammonium

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Class 1 Substance(s):

Salts of N, N, N-Trimethyldodecane-1-aminium	14%
Hexadecyltrimethylammonium chloride	3.0%
Salt of trimethyl(octadecyl)ammonium	2.8%

Fire Service Act:

Group 4: Flammable liquids, Type 2 petroleum, Water soluble liquid, Designated Quantity (2000 litre)
 Hazardous rank III

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

Flammable liquids

Air Law, Enforcement Rule:

Flammable liquids

Explosives Control Act:

Not Regulated

High Pressure Gas Safety Act:

Not Regulated

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:	On or in compliance with the inventory
Australia AICS:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	Contact us for information
Japan (ENCS) List:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
REACH (EU):	Contact us for information
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory

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.

Version #: 3.0
Revision Date: 2023.10.11
Issue Date: 2021.03.02

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
- (87): EU CLP Regulation Annex VI
- (88): ECHA-REACH Registered Substances Database