

SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): ELEC QN

Product No.: A0000277

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: Antistatic agents for plastic 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
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Health Hazards

Acute toxicity (Dermal)	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1

Unknown toxicity - Health

Acute toxicity, dermal	5 %
Acute toxicity, inhalation, dust or mist	50.13 %

Environmental Hazards

Acute hazards to the aquatic environment	Category 2
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 in contact with skin.
 Causes skin irritation.
 Causes serious eye damage.
 Toxic to aquatic life.
 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. 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. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. IF ON SKIN (or hair): Rinse skin with water [or shower]. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER or doctor/ physician 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 cool.

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 (%)
Alkyl trimethylammonium chlorides	Trade Secret	Yes	Yes	20 - 30%
Isopropyl alcohol	67-63-0	Yes	Yes	10 - 20%
Polyoxyethylene alkyl ethers	Trade Secret	Yes	Yes	5.0%

4. First-aid measures

Description of first aid measures

Inhalation:	Remove person to fresh air and keep comfortable for breathing.
Skin Contact:	Rinse skin with water [or shower]. Gently wash with plenty of soap and water. Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before re-use. 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:	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.
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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:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use explosion-proof electrical equipment and prevent from static electrocity.
- Local/Total ventilation:** Use an adequate ventilation.
- Safe handling advice:** Keep away from source of ignition. Avoid contact with eyes. 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 in a well-ventilated place. Keep container tightly closed. Store in a cool place. Keep away from source of ignition.
- Safe packaging materials:** No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Components	Type	Form of exposure	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: Gloves (solvent-resistant)
- Skin and Body Protection:** Solvent-resistant 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:** Alcohol-like odor
- Odor Threshold:** No data available.
- Freezing point:** -20 °C/-4 °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:** 27 °C/81 °F
Method: Tag closed cup
- Auto-ignition temperature:** >100 °C/212 °F
- Decomposition Temperature:** No data available.

pH:	7.5 Method: 20% aqueous solution
Viscosity	
Dynamic viscosity:	24 mPa.s (20 °C/68 °F)
Kinematic viscosity:	No data available.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	0.942 g/ml (20 °C/68 °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 (Mouse): 16,145 mg/kg Not classified based on available data.
Dermal	
Product:	ATEmix 1,642 mg/kg

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): Severe undiluted

Serious Eye Damage/Eye Irritation

Product: OECD TG405 Rabbit: Corrosive undiluted

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: Classification not possible due to insufficient data.

Specific Target Organ Toxicity - Single Exposure

Product: Classification not possible due to insufficient data.

Components:

Isopropyl alcohol Category 3: narcotic effects: (87)

Specific Target Organ Toxicity - Repeated Exposure

Product: Classification not possible due to insufficient data.

Aspiration Hazard

Product: Classification not possible due to insufficient data.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Toxicity to Aquatic Plants

Product: No data available.

Acute hazards to the aquatic environment:

Fish

Product: LC 50 (Rainbow Trout, 96 h): 1.5 mg/l

Aquatic Invertebrates

Product: No data available.

Components:

Alkyl trimethylammonium chlorides Category 1: (88)

Polyoxyethylene alkyl ethers Category 1: (21)

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Alkyl trimethylammonium chlorides Category 1: (88)

Polyoxyethylene alkyl ethers Category 3: (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 K_{ow})

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 1993
UN Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (Isopropanol)
Transport Hazard Class(es):	
Class:	3
Label(s):	3
EmS No.:	F-E, S-E
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 1993
UN Proper Shipping Name:	Flammable liquid, n.o.s. (Isopropanol)
Transport Hazard Class(es):	
Class:	3
Label(s):	3
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. 355
Cargo aircraft only:	Allowed. 366

UN Proper Shipping Name (JP): その他の引火性液体(他の危険性を有しないもの)(他に品名が明示されているものを除く。)(Isopropanol)

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: 127

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	10 - 20%
Poly(oxyethylene) alkyl(C12-15) ether (From April 1st, 2025)	1 - 10%

Labeling substances:
 Propyl alcohol
 Poly(oxyethylene) alkyl(C12-15) ether (From April 1st, 2025)

Confirmed mutagens among the notified chemical substances:
 Not Regulated

Confirmed mutagens among the existing chemical substances:
 Not Regulated

Confirmed carcinogenic chemical substances:
 Not 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
 alpha-Alkyl(C=12-15)-omega-hydroxypoly(oxyethylene) (It is limited that a number-average molecular weight of the polymer is less than 1,000.)

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):	
Poly(oxyethylene) alkyl ether (alkyl C=12-15)	4.7%
Salts of N, N, N-Trimethyldodecane-1-aminium	13%
Hexadecyltrimethylammonium chloride	2.9%
Salt of trimethyl(octadecyl)ammonium	2.7%

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.

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