

Last revised date : 2022.10.25 Revision Date: 2022.10.26 Issue Date: 2021.04.24

# SAFETY DATA SHEET

## 1. Product and company identification

Name of chemical (Product name): ELEC EA

Product No.: B0001788

## 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

Emergency telephone number: 81-3-5630-7700

## 2. Hazard(s) identification

#### **GHS** classification

#### **Physical Hazards**

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 100 % Acute toxicity, inhalation, dust or mist 100 %

**Environmental Hazards** 

Acute hazards to the aquatic Category 1

environment

**Unknown toxicity - Environment** 

Acute hazards to the aquatic 0 %

environment

Chronic hazards to the aquatic 100 %

environment

#### **Label Elements**

#### Pictograms:

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Signal Word: Danger

**Hazard Statement:** May be corrosive to metals.

Causes severe skin burns and eye damage.

Very toxic to aquatic life.

**Precautionary Statements** 

**Prevention:** Keep only in original packaging. 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. This product may form partially precipitate according to the storage condition. In that case, please warm-up for melting,

then use as homogeneous liquid.

**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. Immediately wash material off the skin thoroughly with 2% acetic acid and plenty of water until slimy feeling disappears. Immediately call a POISON CENTER or doctor/ physician. Absorb spillage to prevent material damage. Collect spillage.

Storage: 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

#### **Substances**

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
Lauryldiethanolamine	Trade Secret	YES	YES	

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#### 4. First-aid measures

Description of necessary first-aid measures

**Inhalation:** Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER/doctor.

**Skin Contact:** Remove/take off immediately all contaminated clothing.

Immediately wash material off the skin thoroughly with 2% acetic

acid and plenty of water until slimy feeling disappears.

**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 nitrogen

oxides. Avoid inhalation of smoke or gases.

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#### 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.

# 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. Use an adequate ventilation. Iron is apt to rust. Plant equipment

should be treated with rust-resist.

Safe handling advice: Keep away from source of ignition. Avoid contact with skin

and eyes. This product may form partially precipitate according to the storage condition. In that case, please warm-up for melting, then use as homogeneous liquid. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required. Do not

breathe dust/fume/gas/mist/vapors/spray.

Contact avoidance measures: No data available.

**Storage** 

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

place. Keep away from source of ignition. Store in corrosive resistant container with a resistant inner liner. Store locked

up.

Safe packaging materials: 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 goggles or Face shield

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Hand Protection: Material: Gloves (alkali-resistant)

Skin and Body Protection: Alkali-resistant protective clothing

**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

Colorless to pale yellow clear

**Odor:** Slight characteristic odor

Odor Threshold:No data available.Freezing point:55 - 64 °F/13 - 18 °CBoiling 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: 379 °F/193 °C (Cleveland open cup)

Self Ignition Temperature:

No data available.

Decomposition Temperature:

No data available.

PH:

10 (1% solution)

**Viscosity** 

**Dynamic viscosity:** 143 mPa.s (68 °F/20 °C)

78 mPa.s (86 °F/30 °C) 46.5 mPa.s (104 °F/40 °C)

Kinematic viscosity: No data available.

Flow Time: No data available.

Solubility(ies)

Solubility in Water: Slightly Soluble

Emulsifiable in water.

**Solubility (other):** Soluble in aromatic solvents

Soluble in alcohol and chloroform

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

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Vapor pressure:No data available.Relative density:No data available.

**Density:** 0.9134 g/ml (68 °F/20 °C)

0.9069 g/ml (104 °F/40 °C) 0.8996 g/ml (140 °F/60 °C)

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: Stable in general.

Possibility of hazardous reactions: Has no self-reactivity.

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): 19,041 mg/kg

Not classified based on available data.

**Dermal** 

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

Inhalation

Product: Dusts, mists and fumes: 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.

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Components:

Lauryldiethanolamine Category 1: (21)

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

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

**Ecotoxicity:** 

Acute hazards to the aquatic environment

**Fish** 

Product: LC 50 (Rainbow Trout, 96 h): 0.57 mg/l

**Aquatic Invertebrates** 

**Product:** No data available.

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**Toxicity to Aquatic Plants** 

**Product:** No data available.

Components:

Lauryldiethanolamine Category 1: (21)

Chronic hazards to the aquatic environment

**Fish** 

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

**Aquatic Invertebrates** 

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

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Persistence and Degradability

Biodegradation

**Product:** 64 % (28 d, OECD TG301B) Readily biodegradable

**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. Incinerate with little portions. Risk of producing harmful gases such as carbon monoxide and nitrogen

oxides.

Contaminated Packaging: No data available.

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## 14. Transport information

## International regulations

**IMDG** 

UN Number: UN 2735

UN Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (Alkyldiethanolamine)

Transport Hazard Class(es)

Class: 8 Label(s): 8

EmS No.: F-A, S-B

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 2735

UN Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (Alkyldiethanolamine)

Transport Hazard Class(es):

Class: 8
Label(s): 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. 852 Cargo aircraft only: Allowed. 856

UN Proper Shipping Name (JP): アミン類 (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。)(Alkyldiethanolamine)

**National Regulations** 

Domestic Standard: In compliance with domestic law.

**Emergency Response Guide Number: 153** 

## 15. Regulatory information

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

Until March 31st, 2023

Not Regulated

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# From April 1st, 2023

#### Class 1 Substance(s):

Mixture of polyaddition products of oxirane to alkan-1-amine (limited to those the alkane is linear chain and C=8,10,12,14,16 or 18 and the mixture thereof), polyaddition products of oxirane to (Z)-octadec-9-en-1-amine and polyaddition products of oxirane to (9Z,12Z)-octadeca-9,12- dien-1-amine

#### **Industrial Safety and Health Law**

Japan. ISHL Corrosive Liquid (Industrial Safety and Health Ordinance, Art. 326, as amended through MHLW Ordinance No. 212)

#### **Poisonous and Deleterious Substances Control Act**

Not Regulated

#### **Explosives Control Act:**

Not Regulated

## **High Pressure Gas Safety Act:**

Not Regulated

#### Fire Service Act:

Group 4: Flammable liquids, Type 3 petroleums, Water soluble liquid, Designated Quantity (4000 litre) Hazardous rank III

# Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. Priority Assessment Chemical Substances (PACs):

alpha,alpha'-[(Alkyl(C=8-18, normal chain)azanediyl)di(ethane-2,1-diyl)]bis[omega-hydroxypoly(oxyethane-1,2-diyl)] (The repeating number of repeating unit is an integer 0 or more.) (It is limited that the number-average molecular weight of the polymer is less than 1,000.)

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

Corrosive substances

## Air Law, Enforcement Rule:

Corrosive substances

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

Pack transport, Marine pollutant (P)

#### **Export Trade Control Order:**

Not Regulated

# **Inventory Status:**

US TSCA Inventory:
Canada DSL Inventory List:
Australia AICS:
On or in compliance with the inventory
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 inventoryJapan ISHL Listing:On or in compliance with the inventoryPhilippines PICCS:On or in compliance with the inventoryChina Inv. Existing ChemicalOn or in compliance with the inventory

Substances:

**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 guidline -- Labelling and Safety Data Sheet (2019) Japan Chemical Industry Association (21): Estimation

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