

SAFETY DATA SHEET

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

GHS Product identifier: ELEC EA

Other means of identification

SDS number: B0001788

Recommended use of the chemical and restrictions on use

Recommended use: Not available.

Recommended restrictions: Not known.

Supplier's details

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 environment	Category 1
--	------------

Unknown toxicity - Environment

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

Chronic hazards to the aquatic environment	100 %
--	-------

Label Elements

Pictograms:



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. Immediately call a POISON CENTER or doctor. 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. Immediately call a POISON CENTER/doctor. 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. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.

Storage:

Store in corrosive resistant container with a resistant inner liner. 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

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)
Lauryldiethanolamine		Trade Secret	

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:	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.

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.

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. 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

None of the components have assigned exposure limits.

Appropriate Engineering Controls:

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.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Safety goggles or Face shield
Hand Protection:	Gloves (alkali-resistant)
Other:	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
Color:	Colorless to pale yellow clear
Odor:	Slight characteristic odor
Odor Threshold:	No data available.
Freezing point:	13 - 18 °C/55 - 64 °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:	193 °C/379 °F Method: Cleveland open cup
Auto-ignition temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	10 Method: 1% solution

Viscosity

Dynamic viscosity:	143 mPa.s (20 °C/68 °F) 78 mPa.s (30 °C/86 °F) 46.5 mPa.s (40 °C/104 °F)
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 (n-octanol/water): No data available.

Vapor pressure: No data available.

Relative density: No data available.

Density: 0.9134 g/ml (20 °C/68 °F)
0.9069 g/ml (40 °C/104 °F)
0.8996 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:	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:	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:	
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 carcinogens present or none present in regulated quantities
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:

Toxicity to Aquatic Plants

Product: No data available.

Acute hazards to the aquatic environment:

Fish	
Product:	LC 50 (Rainbow Trout, 96 h): 0.57 mg/l
Aquatic Invertebrates	
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.

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.
--------------------------	--------------------

Other adverse effects:	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.
--------------------------------	--------------------

14. Transport information

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

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.

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: 153

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Thailand. Reportable Hazardous Substances (Notification of Ministry of Industry Re: Bases respecting report of quantity of hazardous materials under Department of Industrial Works, B.E. 2547)

Not Regulated

Thailand. List of Hazardous Substances (Notification of Ministry of Industry Re: List of Hazardous Substances B.E. 2556, Annex: Schedules 1 - 6)

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, including date of preparation or last revision
--

Issue Date:	15.10.2020
Revision Date	24.06.2024
Version #:	2.0
Source of information:	No data available.
Further Information:	No data available.

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