

SAFETY DATA SHEET

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

GHS Product identifier: เอ็ม-คลีนเนอร์

M-CLEANER

Other means of identification

SDS number: A0002578

Recommended use of the chemical and restrictions on use

Recommended use: Not available. Recommended restrictions: Not known.

Supplier's details

Manufacturer

Company Name: Kao Industrial (Thailand) Co.,Ltd.

Address: O-NES Tower, 14th floor, 6, Soi Sukhumvit 6,

Klongtoey Sub-district, Klongtoey District, Bangkok 10110, Thailand

+662-655-4433 Telephone: +662-655-4545 Fax: Contact division: **Chemical Business**

E-mail:

Emergency telephone number: 66-2-655-4433

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

Specific Target Organ Toxicity -Category 2 (Central nervous system, Respiratory organs, Single Exposure

Liver)

Specific Target Organ Toxicity -Category 2 (Central nervous system)

Repeated Exposure

Unknown toxicity - Health

Acute toxicity, dermal 6.5 % Acute toxicity, inhalation, vapor 6.49 % Acute toxicity, inhalation, dust or mist 14.01 %

Environmental Hazards

Category 3 Acute hazards to the aquatic

environment

Unknown toxicity - Environment

Acute hazards to the aquatic 0 %

environment

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Chronic hazards to the aquatic

environment

0 %

Label Elements

Pictograms:



Signal Word: Danger

Hazard Statement: May be corrosive to metals.

Causes severe skin burns and eye damage.

May cause damage to organs.

May cause damage to organs through prolonged or

repeated exposure. Harmful to aquatic life.

Precautionary Statements

Keep only in original packaging. Do not breathe Prevention:

dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. 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/doctor. Absorb

spillage to prevent material damage.

Storage: Store in corrosive resistant container with a resistant inner

liner. Store locked up. Do not store with acids.

Disposal: Passed to a licensed waste contractor.

Other hazards which do not result in

GHS classification:

None.

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3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Polyoxyethylene phenyl ether		Trade Secret	
2-Aminoethanol		141-43-5	5 - 10%
Lauryldimethylamine oxide		Trade Secret	

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Trade secret information: A specific chemical identity and/or percentage of

composition has been withheld as a 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: Take off immediately all contaminated clothing. Rinse skin with

water/shower. Wash contaminated clothing before reuse.

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.

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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. Product itself is non-combustible. 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: No data available.

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. If necessary, after dilution with water, cautiously neutralize with dilute hydrochloric acid or dilute sulfuric acid, and weep or vacuum spills to containers, then flush with plenty of

water.

Environmental Precautions: Avoid release to the environment.

7. Handling and storage

Handling

Technical 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.

Local/Total ventilation: Use an adequate ventilation.

Safe handling advice: Avoid contact with skin and eyes. Use an adequate

ventilation. Wash thoroughly after handling. Use personal

protective equipment as required. Do not breathe

dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke

when using the product. Avoid contact with acids.

Contact avoidance measures: No data available.

Storage

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

place. Store locked up. Do not store with acids.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
2-Aminoethanol	TWA	3 ppm	Thailand. OELs (DLPW Notification Re: Occupational Exposure Limits for Hazardous Chemicals), as amended (08 2017)
2-Aminoethanol	TWA	3 ppm	US. ACGIH Threshold Limit Values, as amended (2008)
	STEL	6 ppm	US. ACGIH Threshold Limit Values, as amended (2008)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Appropriate Engineering

Controls:

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

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

Odor: Amine-like odor

Odor Threshold: No data available.

Freezing point: < 68 °F/20 °C

Boiling Point: No data available.

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No data available. Flammability:

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: No data available. **Explosive limit - lower:** No data available. Flash Point: No data available. **Self Ignition Temperature:** No data available. **Decomposition Temperature:** No data available.

pH: 11.7 (Undiluted 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.

1.007 g/ml (77 °F/25 °C) Density:

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: No data available.

Conditions to avoid: No data available.

Incompatible Materials: No data available.

Hazardous Decomposition

Products:

No data available.

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11. Toxicological information

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 5,669 mg/kg

Dermal

Product: ATEmix 19,136 mg/kg

Inhalation

Product: Vapour: ATEmix220 mg/l

Dusts, mists and fumes: Classification not possible due to insufficient

data.

Skin Corrosion/Irritation

Product: No data available.

Components:

2-Aminoethanol Category 1B: (87) Lauryldimethylamine oxide Category 2: (88)

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Polyoxyethylene phenyl ether
2-Aminoethanol
Lauryldimethylamine oxide

Category 1: (88)
Category 1: (1)
Category 1: (99)

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:
No data available.

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Components:

2-Aminoethanol Category 1: Central nervous system, Respiratory organs, Liver: (1)

Category 3: respiratory tract irritant: (1)

Specific Target Organ Toxicity - Repeated Exposure
Product:
No data available.

Components:

2-Aminoethanol Category 1: Central nervous system: (1)

Category 2: Respiratory organs: (1)

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:

2-Aminoethanol Category 2: (12) Lauryldimethylamine oxide Category 1: (99)

Chronic hazards to the aquatic environment

Fish

Product: No data available.

Not classified based on available data of component(s).

Aquatic Invertebrates

Product: No data available.

Not classified based on available data of component(s).

Toxicity to Aquatic Plants

Product: No data available.

Components:

2-Aminoethanol Category 3: (12) Lauryldimethylamine oxide Category 2: (8)

Persistence and Degradability

Biodegradation

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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.

Other adverse effects: No data available.

13. Disposal considerations

Disposal methods: Review "HANDLING AND STORAGE (Section 7)". Passed to a

licensed waste contractor.

Contaminated Packaging: No data available.

14. Transport information

IATA

UN Number: UN 1760

UN Proper Shipping Name: Corrosive liquid, n.o.s.(Ethanolamine)

Transport Hazard Class(es):

Class: 8
Label(s): 8

Packing Group: III
Excepted quantity E1
Environmentally Hazardous: No
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 1760

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

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: No
Marine Pollutant: No

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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: 154

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)

Citric acid

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:

Japan ISHL Listing:

Philippines PICCS:

China Inv. Existing Chemical Substances:

On or in compliance with the inventory
On or in compliance with the inventory
On or in compliance with the inventory

REACH (EU): Contact us for information

Taiwan Chemical Substance Inventory: On or in compliance with the inventory

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16. Other information, including date of preparation or last revision

Issue Date: 27.09.2022

Version #: 1.0

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:

(1): GHS Classification Database, National Institute of Technology and

Evaluation (NITE) (8): OECD SIDS

(12): Results of Eco-toxicity tests of chemicals conducted by Ministry of

the Environment in Japan

(87): EU CLP Regulation Annex VI

(88): ECHA-REACH Registered Substances Database

(99): Internal study data

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