

# SAFETY DATA SHEET

## 1. Product and company identification

**Name of chemical (Product name):** EMAL 20T

**Product No.:** B0001811

### 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

### Recommended use of the chemical and restrictions on use

<b>Intended Use:</b>	Quasi-drug use and cosmetic use Washing and cleaning agents for household use and institutional use
<b>Restrictions on use:</b>	Please refer to Sec.2, 4, 7, 8, 10 and 13.

**Emergency telephone number:** 81-3-5630-7700

## 2. Hazard(s) identification

### GHS classification

#### Health Hazards

Serious Eye Damage/Eye Irritation	Category 1
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#### Unknown toxicity - Health

Acute toxicity, dermal	43.95 %
Acute toxicity, inhalation, dust or mist	44.02 %

#### Environmental Hazards

Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

#### Unknown toxicity - Environment

Acute hazards to the aquatic environment	3.7 %
Chronic hazards to the aquatic environment	3.7 %

**Label Elements****Pictograms:****Signal Word:**

Danger

**Hazard Statement:**Causes serious eye damage.  
Harmful to aquatic life with long lasting effects.**Precautionary Statements****Prevention:**

Avoid release to the environment. Wear 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: Wash with plenty of soap and water.

**Storage:**

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**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 (%)
Triethanolamine polyoxyethylene(3) lauryl ether sulfate	27028-82-6	7-155 2-308	7-155 2-308	40%

**4. First-aid measures****Description of first aid measures****Inhalation:**

Remove person to fresh air and keep comfortable for breathing.

**Skin Contact:**

Gently wash with plenty of soap and water.

**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.

## 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. 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 sulfur 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.

**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:** No data available.

**7. Handling and storage****Handling**

<b>Technical measures:</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
<b>Local/Total ventilation:</b>	Use an adequate ventilation.
<b>Safe handling advice:</b>	Avoid contact with eyes. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required.
<b>Contact avoidance measures:</b>	No data available.

**Storage**

<b>Safe storage conditions:</b>	Keep container tightly closed. Store in a well-ventilated place.
<b>Safe packaging materials:</b>	No data available.

**8. Exposure controls/personal protection****Control Parameters****Occupational Exposure Limits**

Components	Type	Form of exposure	Exposure Limit Values		Source
Triethanolamine	8 hour TWA			1 mg/m <sup>3</sup>	JP NOEL (10 2025)
	TWA			5 mg/m <sup>3</sup>	ACGIH (2008)

<b>Engineering measures:</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use an adequate ventilation.
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**Individual protection measures, such as personal protective equipment (PPE)**

<b>Eye/face protection:</b>	Safety goggles
<b>Hand Protection:</b>	Material: Chemical protective gloves
<b>Skin and Body Protection:</b>	Chemical protective clothing.
<b>Respiratory Protection:</b>	Use as appropriate to situation.
<b>Hygiene measures:</b>	No data available.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

<b>Physical state:</b>	Liquid
<b>Form:</b>	Liquid
<b>Color:</b>	Pale yellow, clear
<b>Odor:</b>	Slight characteristic odor
<b>Odor Threshold:</b>	No data available.
<b>Freezing point:</b>	-9 °C/16 °F
<b>Boiling Point:</b>	No data available.
<b>Flammability:</b>	No data available.

#### Upper/lower limit on flammability or explosive limits

<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.

**Flash Point:** Not detected

**Auto-ignition temperature:** No data available.

**Decomposition Temperature:** No data available.

**pH:** 6.5 (1% solution)

#### Viscosity

<b>Dynamic viscosity:</b>	60 mPa.s (20 °C/68 °F) 50 mPa.s (30 °C/86 °F) 43 mPa.s (40 °C/104 °F)
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**Kinematic viscosity:** No data available.

**Flow Time:** No data available.

#### Solubility(ies)

<b>Solubility in Water:</b>	Soluble
<b>Solubility (other):</b>	Soluble in ethyl alcohol

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

**Vapor pressure:** No data available.

**Relative density:** No data available.

**Density:** 1.0669 g/ml (20 °C/68 °F)  
1.0622 g/ml (30 °C/86 °F)  
1.0575 g/ml (40 °C/104 °F)

**Relative vapor density:** No data available.

#### Particle characteristics

<b>Particle Size:</b>	No data available.
<b>Particle Size Distribution:</b>	No data available.

## 10. Stability and reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Stable in general.
<b>Possibility of hazardous reactions:</b>	Has no self-reactivity.
<b>Conditions to avoid:</b>	No data available.
<b>Incompatible Materials:</b>	No data available.
<b>Hazardous Decomposition Products:</b>	No data available.

## 11. Toxicological information

### Acute toxicity (list all possible routes of exposure)

#### Oral

**Product:** LD 50 (Rat): > 2,000 mg/kg Not classified  
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): Not classified undiluted  
Not classified based on available data.

### Serious Eye Damage/Eye Irritation

**Product:** OECD TG405 Rabbit: Severe 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, WP2try-): Negative  
Rec-assay: 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.

**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): 75 mg/l

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Components:**

Triethanolamine  
polyoxyethylene(3) lauryl  
ether sulfate  
Category 2: (21)

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

#### Aquatic Invertebrates

**Product:** No data available.

#### Components:

Triethanolamine  
polyoxyethylene(3) lauryl  
ether sulfate  
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 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 sulfur oxides.

**Contaminated Packaging:** No data available.

### 14. Transport information

#### International regulations

##### IMDG

Not Regulated.

##### IATA

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.

### 15. Regulatory information

#### Industrial Safety and Health Law

##### Specified Substances Regulation

**Class 1 designated chemical substances:**

Not Regulated

**Class 2 designated chemical substances:**

Not Regulated

**Class 3 designated chemical substances:**

Not Regulated

**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.):**

Triethanolamine	0.1 - 1.0%
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**Labeling substances:**

Not Regulated

**Skin and Eye Damage Substances:**

Triethanolamine polyoxyethylene(3) lauryl ether sulfate

**Carcinogens from SDS and Risk Assessment List:**

Not Regulated

**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):**  
Onium salt or sodium salts of alpha-(alkyl(C=10-16))-omega-(sulfoxy)poly[(oxyethylene)(or oxyethylene/oxy(methylethylene))] (It is limited that the average of repeating number of the repeating unit is 1-4.)  
Triethanolamine (as salt)

**Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof**  
Not Regulated

**Fire Service Act:**  
Not applicable to dangerous materials / designated flammables.

**Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule:**  
Not Regulated

**Air Law, Enforcement Rule:**  
Not Regulated

**Explosives Control Act:**  
Not Regulated

**High Pressure Gas Safety Act:**  
Not Regulated

**Export Trade Control Order:**  
Not Regulated

**Inventory Status:**

<b>US TSCA Inventory:</b>	On or in compliance with the inventory
<b>Canada DSL Inventory List:</b>	Not in compliance with the inventory
<b>Australia Industrial Chem. Act (AIC):</b>	On or in compliance with the inventory
<b>Korea Existing Chemicals Inv. (KECI):</b>	Contact us for information
<b>Japan (ENCS) List:</b>	On or in compliance with the inventory
<b>Japan ISHL Listing:</b>	On or in compliance with the inventory
<b>Philippines PICCS:</b>	Not in compliance with the inventory
<b>China Inv. Existing Chemical Substances:</b>	On or in compliance with the inventory
<b>REACH (EU):</b>	Contact us for information
<b>Taiwan Chemical Substance Inventory:</b>	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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**Version #:** 5.0

### 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