

Product name:  
EMULGEN 106

# SAFETY DATA SHEET

## 1. Product and company identification

Name of chemical (Product name): EMULGEN 106

Product No.: B0001906

### 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  
Division: Chemical Business  
E-mail: chemical@kao.co.jp

Emergency telephone number: 81-3-5630-7700

## 2. Hazard(s) identification

### GHS classification:

#### Health Hazards

Serious Eye Damage/Eye Irritation Category 1

#### Environmental Hazards

Acute hazards to the aquatic environment Category 2

Chronic hazards to the aquatic environment Category 3

### GHS label elements

#### Pictograms:



Signal Word: Danger

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

**Prevention:** Wash thoroughly after handling. 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. Call a POISON CENTER or doctor if you feel unwell.

**Storage:** -

**Disposal:** Passed to a licensed waste contractor.

**Unknown toxicity - Health**

Acute toxicity, inhalation, dust or mist 100 %

**Unknown toxicity - Environment**

Acute hazards to the aquatic environment 0 %

Chronic hazards to the aquatic environment 0 %

**3. Composition/information on ingredients**

**Substances**

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
Polyoxyethylene(5) lauryl ether	9002-92-0	Yes	Yes	

**4. First-aid measures**

**Description of necessary 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.

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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.

**Specific hazards arising from the chemical:** No data available.

### Special protective equipment and precautions for firefighters

**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.

## 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.

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**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.

**Hygiene measures:** No data available.

### Storage

**Safe storage conditions:** Keep container tightly closed. Store in a well-ventilated place. Keep away from source of ignition.

**Safe packaging materials:** No data available.

**Storage Temperature:** 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

**Hand Protection:** Material: Rubber gloves

**Skin and Body Protection:** Full-body suit

**Respiratory Protection:** Use 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

**Odor:** Slight characteristic odor

**Odor Threshold:** No data available.

**Freezing point:** 43 °F/6 °C

**Boiling Point:** > 104 °F/40 °C

**Flammability:** No data available.

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

<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Flash Point:</b>	376 °F/191 °C (Cleveland open cup)
<b>Self Ignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>pH:</b>	5 (5% aqueous solution)
<b>Viscosity</b>	
<b>Dynamic viscosity:</b>	38 mPa.s (68 °F/20 °C) 21 mPa.s (104 °F/40 °C) 13 mPa.s (140 °F/60 °C)
<b>Kinematic viscosity:</b>	No data available.
<b>Flow Time:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Emulsifiable in water.
<b>Solubility (other):</b>	Soluble in isopropyl alcohol Soluble in ethylene glycol
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Density:</b>	0.961 g/ml (68 °F/20 °C) 0.947 g/ml (104 °F/40 °C) 0.933 g/ml (140 °F/60 °C)
<b>Relative vapor density:</b>	No data available.
<b>Particle characteristics</b>	
<b>Particle Size Distribution:</b>	Not applicable

<b>10. Stability and reactivity</b>
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<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Stable in general.
<b>Possibility of hazardous reactions:</b>	Material is stable under normal conditions.
<b>Conditions to avoid:</b>	No data available.
<b>Incompatible Materials:</b>	No data available.
<b>Hazardous Decomposition Products:</b>	No data available.

<b>11. Toxicological information</b>
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**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:** No data available.  
Not classified based on available data of component(s).

**Dermal**

**Product:** No data available.  
Not classified based on available data of component(s).

**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:** No data available.  
Not classified based on available data of component(s).

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Components:**

Polyoxyethylene(5) lauryl ether Category 1: (96)

**Respiratory or Skin Sensitization**

**Product:** Skin: No data available.  
Not classified based on available data of component(s).  
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

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### Germ Cell Mutagenicity

**In vitro**  
**Product:** No data available.  
Not classified based on available data of component(s).

**In vivo**  
**Product:** No data available.  
Not classified based on available data of component(s).

**Reproductive toxicity**  
**Product:** No data available.  
Not classified based on available data of component(s).

**Specific Target Organ Toxicity - Single Exposure**  
**Product:** Classification not possible due to insufficient data.

**Specific Target Organ Toxicity - Repeated Exposure**  
**Product:** No data available.  
Not classified based on available data of component(s).

**Aspiration Hazard**  
**Product:** No data available.

**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:**  
Polyoxyethylene(5) lauryl ether      Category 2: (96)

#### Chronic hazards to the aquatic environment

**Fish**  
**Product:** No data available.

**Aquatic Invertebrates**  
**Product:** No data available.

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**Toxicity to Aquatic Plants**

Product: No data available.

**Components:**

Polyoxyethylene(5) lauryl ether Category 3 (96)

**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:** No data available.  
Not classified based on available data of component(s).

**Further Information:** 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**

**International regulations**

**IMDG**

Not regulated.

**IATA**

Not regulated.

**National Regulations**

**Domestic Standard:** In compliance with domestic law.

**15. Regulatory information**



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**Industrial Safety and Health Law**

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):**

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.)  
Alkanol(C=10-16)

**Law concerning Pollutant Release and Transfer Register**

**Specified Class 1 substance(s):**

Not Regulated

**Class 1 Substance(s):**

POLY(OXYETHYLENE)ALKYL ETHER (ALKYL C=12-15)	94%
1-DODECANOL	6.5%

**Class 2 Substance(s):**

Not Regulated

**Fire Service Act:**

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

**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

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

Category: Y

**Export Trade Control Order**

Not Regulated

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**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):	Registered
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.

**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
- (96): CESIO RECOMMENDATIONS for the harmonized classification and labelling of surfactants (March 2017)