SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): EMULGEN 108

Product No.: B0001908

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

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

Prevention: Avoid release to the environment. Wash thoroughly after handling. 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/doctor. IF ON SKIN: Gently wash with plenty of water and soap. 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(6) lauryl ether	9002-92-0	(7)-97	(7)-97	

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.

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.
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

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.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: Liquid
Color: Colorless to pale yellow
Odor: Slight characteristic odor
Odor Threshold: No data available.
pH: 4 - 6 (5% solution)
Freezing point: 50.0 °F/10.0 °C
Boiling Point: No data available.
Flash Point: 402.8 °F/206.0 °C (Cleveland open cup)
Evaporation Rate: No data available.
Flammability: No data available.
Explosive limit - upper: No data available.
Explosive limit - lower: No data available.
Vapor pressure: No data available.
Relative vapor density: No data available.

Density:	0.985 g/ml (68.0 °F/20.0 °C) 0.971 g/ml (104.0 °F/40.0 °C) 0.957 g/ml (140.0 °F/60.0 °C)
Relative density:	No data available.
Solubility in Water:	Very Soluble
Solubility (other):	Soluble in ethylene glycol Soluble in isopropyl alcohol
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.
Dynamic viscosity:	60.0 mPa.s (68.0 °F/20.0 °C) 38.0 mPa.s (86.0 °F/30.0 °C) 25.0 mPa.s (104.0 °F/40.0 °C)
Particle properties:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	No data available.
Possibility of hazardous reactions:	Has low reactivity. 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: 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(6) 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

ACGIH:

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: 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: LC 50 (Red Killifish, 96 h): 3.3 mg/l (Data on similar product)

Aquatic Invertebrates
Product: EC 50 (Daphnia, 48 h): 2.2 mg/l (Data on similar product)

Toxicity to Aquatic Plants
Product: No data available.

Components:
Polyoxyethylene(6) lauryl ether: Category 2 (99)

Chronic 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(6) lauryl ether: Category 3 (96)

Persistence and Degradability

Biodegradation
Product: 65 % (28 d, OECD TG301C) Readily biodegradable
74 % (28 d, OECD TG301C) 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 RegulatedNo 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

Law concerning Pollutant Release and Transfer Register
Class 1 Substance(s):

POLY(OXYETHYLENE)ALKYL ETHER (ALKYL C=12-15);	96%
1-Dodecanol	3.9%

Industrial Safety and Health Law
Not Regulated

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 4 petroleums, Water soluble liquid, Designated Quantity (6000 litre)
III: Hazardous rank III

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.
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) (only the substances that contain any of C=11-14 components)

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

Air Law, Enforcement Rule:
Not Regulated

Act on Prevention of Marine Pollution and Maritime Disaster:
Category: Y

Export Trade Control Order
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):	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 guidline -- Labelling and Safety Data Sheet (2019) Japan Chemical Industry Association
(96): CESIO RECOMMENDATIONS for the harmonized classification and labelling of surfactants (March 2017)
(99): Internal study data