

Revision Date: 2025.01.10 Issue Date: 2021.06.21

SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): EMULGEN LS-106

Product No.: B0002013

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

Intended Use: Additives for plastic products, Washing and cleaning products for industrial use

Restrictions on use: 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

Unknown toxicity - Health

Acute toxicity, inhalation, dust or mist 100 %

Environmental Hazards

Acute hazards to the aquatic Category 2

environment

Chronic hazards to the aquatic Category 2

environment

Unknown toxicity - Environment

Acute hazards to the aquatic 0 %

environment

Chronic hazards to the aquatic 0 %

environment

Label Elements

Pictograms:

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Signal Word: Danger

Hazard Statement: Causes serious eye damage.

Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Avoid release to the environment. Wash thoroughly after

handling. Wear eye protection/face protection. This product may be solidified totally or partially according to the storage condition. In that case, please warm-up for melting, then use

at homogeneous liquid.

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.

Collect spillage.

Storage: -

Disposal: Passed to a licensed waste contractor.

Other hazards which do not result in

GHS classification:

None.

3. Composition/information on ingredients

Substances

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
Polyoxyethylene polyoxypropylene alkyl ethers	68439-51-0	(7)-97	(7)-97	

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.

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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.

No data available. Hazards:

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:

No data available.

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.

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.

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7. Handling and storage

Handling

Technical measures: 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: Keep away from source of ignition. Avoid contact with eyes.

This product may be solidified totally or partially according to the storage condition. In that case, please warm-up for melting, then use at homogeneous liquid. Use an adequate ventilation. Wash thoroughly after handling. Use personal

protective equipment as required.

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.

Safe packaging materials: 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

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Form: Liquid

Color: Colorless to pale yellow

Odor: Slight characteristic odor

Odor Threshold: No data available.

Freezing point: -9 °C/16 °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: 224 °C/435 °F (Cleveland open cup)

Auto-ignition temperature: No data available.

Decomposition Temperature: No data available.

pH: 6 (5% solution)

Viscosity

Dynamic viscosity: 57 mPa.s (20 °C/68 °F)

Kinematic viscosity: No data available.

Flow Time: No data available.

Solubility(ies)

Solubility in Water: Very Soluble

Solubility (other): Soluble in acetone, chloroform, cyclohexane, ethanol,

2-propanol and toluene

Partition coefficient (n-octanol/water):No data available.Vapor pressure:No data available.Relative density:No data available.

Density: 0.975 g/ml (20 °C/68 °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: Material is stable under normal conditions.

Conditions to avoid: No data available.

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Incompatible Materials: No data available.

Hazardous Decomposition

Products:

No special hazardous and harmful combustion or decomposition.

11. Toxicological information

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat, Male): > 2,000 mg/kg (Data on similar product)

Not classified based on available data.

Dermal

Product: No data available.

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

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, (Data on similar

product)

Not classified based on available data.

Serious Eye Damage/Eye Irritation

Product: OECD TG405 Rabbit: Severe undiluted, (Data on similar product)

Respiratory or Skin Sensitization

Product: Skin sensitization, GPMT Skin: (Guinea Pig): Negative (Data on similar

product)

Skin sensitization, Buehler Skin: (Guinea Pig): Negative (Data on similar

product)

Skin: Not classified based on available data.

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: Ames test (TA98, TA100): 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: Classification not possible due to insufficient data.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50 (Red Killifish, 96 h): 2.1 mg/l

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Polyoxyethylene Category 2: (99)

polyoxypropylene alkyl

ethers

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

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Components:

Polyoxyethylene polyoxypropylene alkyl

ethers

Category 2: (21)

Persistence and Degradability:

Biodegradation

Product: 80 % (28 d, OECD TG301B) Readily biodegradable (Data on similar

product)

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

No data available. **Further Information:**

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

UN Number: UN 3082

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Polyoxyethylene polyoxypropylene alkylether)

Transport Hazard Class(es)

9 Class: Label(s): 9 F-A, S-F EmS No.: Ш

Packing Group: Limited quantity 5.00L Excepted quantity E1 Environmentally Hazardous: Yes Marine Pollutant: Yes

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Special precautions for user: Not Regulated.

IATA

UN Number: UN 3082

UN Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

(Polyoxyethylene polyoxypropylene alkylether)

Transport Hazard Class(es):

Class:

Label(s): 9MI (Miscellaneous)

Packing Group:

Excepted quantity

Environmentally Hazardous:

Marine Pollutant:

No

Special precautions for user: Not Regulated.

Other information

Passenger and cargo aircraft: Allowed. 964 Cargo aircraft only: Allowed. 964

UN Proper Shipping Name (JP): 環境有害物質(液体)(Polyoxyethylene polyoxypropylene alkylether)

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: 171

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.):

Poly(oxyethylene) alkyl ether (limited to those the alkyl group is C=12-15 and initial mixture thereof) (From April 1st, 2025)

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Labeling substances:

Poly(oxyethylene) alkyl ether (limited to those the alkyl group is C=12-15 and mixture thereof) (From April 1st, 2025)

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):

 α -(Alkyl(C=6-18))- ω -hydroxypoly[oxyethane-1,2-diyl/oxy(methylethane-1,2-diyl)](Limited to polymers with an average molecular weight of less than 1,000.)

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.)

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Class 1 Substance(s):

POLY(OXYETHYLENE)ALKYL ETHER (ALKYL C=12-15)

3.8%

Fire Service Act:

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

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule:

Miscellaneous dangerous substances and articles

Air Law, Enforcement Rule:

Miscellaneous dangerous substances and articles

Explosives Control Act:

Not Regulated

High Pressure Gas Safety Act:

Not Regulated

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Act on Prevention of Marine Pollution and Maritime Disaster:

Pack transport, Marine pollutant

Export Trade Control Order:

Not Regulated

Inventory Status:

US TSCA Inventory:
Canada DSL Inventory List:
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 inventoryJapan ISHL Listing:On or in compliance with the inventoryPhilippines PICCS:On or in compliance with the inventoryChina 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.

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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

(21): Estimation

(99): Internal study data

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