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## SAFETY DATA SHEET

## 1. Product and company identification

Name of chemical (Product name): EMULGEN LS-110

**Product No.:** B0002015

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: Water treatment chemicals, Washing and cleaning products for industrial use,

Washing and cleaning agents for household use and institutional 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

**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.

**Precautionary Statements** 

**Prevention:** Wash thoroughly after handling. Wear eye protection/face

protection. Avoid release to the environment. This product may form partially precipitate according to the storage condition. In that case, please warm-up for dissolving, then

use as 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.

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.

Ingestion: Immediately call a POISON CENTER/doctor.

**Personal Protection for First-aid** 

Responders:

No data available.

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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:

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 U

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:** Facilities storing or utilizing this material should be equipped

with an eyewash facility and a safety shower.

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**Local/Total ventilation:**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. This product may form partially precipitate according to the

storage condition. In that case, please warm-up for dissolving, then use as homogeneous liquid.

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
Form: Liquid

Color: Colorless to pale yellow

Odor: Slight characteristic odor

Odor Threshold: No data available.

Freezing point: 1 °C/34 °F

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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: 242 °C/468 °F (Cleveland open cup)

Auto-ignition temperature: No data available.

Decomposition Temperature: No data available.

pH: 6 (5% solution)

**Viscosity** 

**Dynamic viscosity:** 99 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:** 1.012 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.

**Incompatible Materials:**No data available.

**Hazardous Decomposition** 

**Products:** 

No special hazardous and harmful combustion or decomposition.

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## 11. Toxicological information

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

Oral

**Product:** LD 50 (Rat, Male): > 2,000 mg/kg

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): Non irritant undiluted

Not classified based on available data.

Serious Eye Damage/Eye Irritation

Product: OECD TG405 Rabbit: Severe undiluted

**Respiratory or Skin Sensitization** 

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

similar product)

Skin sensitization, Buehler Skin: (Guinea Pig): Negative

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

ACGIH:

No carcinogens present or none present in regulated quantities

NTP:

No carcinogenic components identified

JSOH:

No carcinogenic components identified

ΕU

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): 4.0 mg/l

**Aquatic Invertebrates** 

**Product:** EC 50 (Daphnia, 48 h): 1.58 mg/l

**Toxicity to Aquatic Plants** 

**Product:** No data available.

#### 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).

#### Persistence and Degradability:

**Biodegradation** 

**Product:** 80 % (28 d, OECD TG301B) Readily biodegradable

87 - 89 % (14 d, OECD TG301C) Readily biodegradable

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**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.

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

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#### 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 mixture 1.0 - 10% thereof) (From April 1st, 2025)

#### 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):**

 $\alpha$ -(Alkyl(C=6-18))- $\omega$ -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)

#### **Fire Service Act:**

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

2.1%

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## 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:** 

**US TSCA Inventory:** On or in compliance with the inventory **Canada DSL Inventory List:** On or in compliance with the inventory Australia Industrial Chem. Act (AIIC): On or in compliance with the inventory

Korea Existing Chemicals Inv. (KECI): Contact us for information

On or in compliance with the inventory Japan (ENCS) List: 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.

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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 (99): Internal study data

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