

SDS No.: B0001838 Revision Date: -**Version #:** 1.0 Last revised date: -

Issue Date: 2021.07.07

SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): EMAL D-4-D

Product No.: B0001838

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 +81-3-5630-7889 Fax: Division: **Chemical Business** E-mail: chemical@kao.co.jp

Emergency telephone number: 81-3-5630-7700

2. Hazard(s) identification

GHS classification:

Health Hazards

Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation Category 1

Environmental Hazards

Acute hazards to the aquatic Category 2

environment

Category 3 Chronic hazards to the aquatic

environment

GHS label elements

Pictograms:



Signal Word: Danger

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Hazard Statement: Causes skin irritation.

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

protective gloves/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 (or hair): Take off contaminated clothing. Gently wash with plenty of soap and water. If skin

irritation occurs: Get medical advice/attention.

Storage: -

Disposal: Passed to a licensed waste contractor.

0 %

Unknown toxicity - Health

Acute toxicity, dermal 9.85 %
Acute toxicity, inhalation, dust 36.26 %

or mist

Unknown toxicity - Environment

Acute hazards to the aquatic 0 %

environment

Chronic hazards to the aquatic

environment

3. Composition/information on ingredients

Mixtures

General information: No data available.

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
Sodium polyoxyethylene alkyl ethers sulfates	Trade Secret			
Sodium isodecyl sulfate	Trade Secret	YES	YES	
Sulfuric acid, mono-C12-15-alkyl esters, sodium salts	Trade Secret			

4. First-aid measures

Description of necessary first-aid measures

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Inhalation: Remove person to fresh air and keep comfortable for breathing.

Skin Contact: If skin irritation occurs, get medical advice/attention. Flush skin with

running water. Take off contaminated clothing and wash before re-

use. Immediately call a POISON CENTER/doctor.

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:

Produce irritating or toxic gases in a fire.

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. Product itself is noncombustible. 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.

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Prevention of secondary

hazards:

Risk of slipping. Spilled material forms slippery floor.

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: 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.

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.

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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: Liquid Form: Liquid

Color: Pale yellow, clear

Odor: Slight characteristic odor

Odor Threshold:

Freezing point:

Soliting Point:

Flammability:

Upper/lower limit on flammability or explosive limits

No data available.

No data available.

Explosive limit - upper:

Explosive limit - lower:

No data available.

No data available.

Not detected

No data available.

No data available.

No data available.

No data available.

Temperature:

pH: 9 (1% available solution)

Viscosity

Dynamic viscosity:No data available.Kinematic viscosity:No data available.Flow Time:No data available.

Solubility(ies)

Solubility in Water: Soluble

Solubility (other): Poorly soluble in organic solvents

Partition coefficient (n-

octanol/water):

No data available.

Vapor pressure:No data available.Relative density:No data available.Density:No data available.Relative vapor density:No data available.

Particle characteristics

Particle Size Distribution: No data available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Stable in general.

Possibility of hazardous

reactions:

Has no self-reactivity.

Conditions to avoid: No data available.

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Incompatible Materials: No data available.

Hazardous Decomposition

Products:

No data available.

11. Toxicological information

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 4,237.29 mg/kg

Dermal

Product: ATEmix 9,322.03 mg/kg

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.

Components:

Sodium polyoxyethylene

alkyl ethers sulfates

Sodium isodecyl sulfate

Sulfuric acid, mono-C12-

15-alkyl esters, sodium

salts

Category 2: (96)

Category 2: (5)

Category 2: (21)

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Sodium polyoxyethylene

Category 1: (96)

alkyl ethers sulfates

Category 1: (8)

Sodium isodecyl sulfate Sulfuric acid, mono-C12-

Category 1: (8)

15-alkyl esters, sodium

salts

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:

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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: 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: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Sodium polyoxyethylene alkyl ethers sulfates

Category 2: (96)

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Category 2: (8) Sodium isodecyl sulfate Category 2: (8) Sulfuric acid. mono-C12-15-alkyl esters, sodium

salts

Chronic hazards to the aquatic environment

Fish

Product: No data available.

Aquatic Invertebrates

No data available. **Product:**

Toxicity to Aquatic Plants

Product: No data available.

Components:

Sodium polyoxyethylene alkyl ethers sulfates

Category 3: (96)

Sodium isodecyl sulfate Sulfuric acid, mono-C12Category 3: (89)

15-alkyl esters, sodium

salts

Category 3: (21)

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

No data available. **Product:**

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. Incinerate with little portions. Risk of producing harmful

gases such as carbon monoxide and sulfur oxides.

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Contaminated Packaging: No data available.

14. Transport information

International regulations

IMDG

Not regulated.

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):

Sodium dodecyl sulfate 4.6% Sodium poly (oxyethylene) dodecyl ether sulfonate 2.8%

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:

Not applicable to dangerous materials / designated flammables.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. **Priority Assessment Chemical Substances (PACs):**

Sodium alkyl(C=8-18) sulfate

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.)

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

Not Regulated

Air Law, Enforcement Rule:

Not Regulated

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Export Trade Control Order:

Not Regulated

Inventory Status:

US TSCA Inventory: Canada DSL Inventory List:

Australia AICS:

Korea Existing Chemicals Inv. (KECI):

Japan (ENCS) List: Japan ISHL Listing: Philippines PICCS:

China Inv. Existing Chemical Substances:

REACH (EU):

Taiwan Chemical Substance Inventory:

On or in compliance with the inventory Not in compliance with the inventory Not in compliance with the inventory Not in compliance with the inventory On or in compliance with the inventory On or in compliance with the inventory Not in compliance with the inventory Not in compliance with the inventory

Contact us for information

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
- (5): Japan Surfactnt Industry Association, GHS categry
- (8): OECD SIDS
- (21): Estimation
- (27): FRAGRANCE JOURNAL
- (48): Human & Environmental Risk Assessment on ingredients of European household cleaning products (HERA)
- (89): CESIO Environmental-Classification-of-Surfactant-according-to-2nd- ATP
- (96): CESIO RECOMMENDATIONS for the harmonized classification and labelling of surfactants (March 2017)

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