

SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): EMAL 2FG

Product No.: B0011255

Manufacturer/Importer/Distributor Information

Information on domestic manufacturer

| | |
|-------------------|---|
| Company Name: | PT. Kao Indonesia Chemicals |
| Address: | Jl. Harapan Raya Lot LL-3B, Kawasan Industri KIIC, Karawang 41361 West Java, Indonesia |
| Telephone: | +62-267-8634844 |
| Fax: | +62-267-8634845 |
| Contact division: | Marketing Department |
| E-mail: | - |

Intended Use: Emulsion polymerization use, Additives for water based paint, Additives for rubber products, Additives for plastic products

Restrictions on use: Please refer to Sec.2, 4, 7, 8, 10 and 13.

Emergency telephone number: +62-21-29369954 (Ext. 1502) (For chemical emergencies only)

2. Hazard(s) identification

GHS classification

Health Hazards

| | |
|-----------------------------------|------------|
| Acute toxicity (Oral) | Category 4 |
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 1 |

Unknown toxicity - Health

| | |
|--|--------|
| Acute toxicity, dermal | 98.1 % |
| Acute toxicity, inhalation, dust or mist | 98.5 % |

Environmental Hazards

| | |
|--|------------|
| Acute hazards to the aquatic environment | Category 2 |
| Chronic hazards to the aquatic environment | Category 3 |

Unknown toxicity - Environment

| | |
|--|-----|
| Acute hazards to the aquatic environment | 0 % |
| Chronic hazards to the aquatic environment | 0 % |

Label Elements

Pictograms:



Signal Word:

Danger

Hazard Statement:

Harmful if swallowed.
 Causes skin irritation.
 Causes serious eye damage.
 Toxic to aquatic life.
 Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection.

Response:

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. 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. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

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 (%) |
|-------------------------------|------------|------|------|------------------------|
| Sodium lauryl sulfate | 151-21-3 | Yes | Yes | |

4. First-aid measures

Description of first aid measures

| | |
|--|---|
| 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: | Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. 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. |
| 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: | Water spray, powder |
| Unsuitable extinguishing media: | No data available. |

| | |
|---|--|
| Special hazards arising from the substance or mixture: | Produce irritating or toxic gases in a fire. |
|---|--|

Special protective equipment and precautions for fire-fighters

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|--|--|
| 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. Risk of producing harmful gases such as carbon monoxide and sulfur oxides. Avoid inhalation of smoke or gases. |

6. Accidental release measures

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|---|---|
| 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: | Sweep or vacuum spills to drums or containers. |
| Environmental Precautions: | Avoid release to the environment. |
| Prevention of secondary hazards: | No data available. |

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: | Avoid contact with eyes. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required. Do not eat, drink or smoke when using the product. |
| Contact avoidance measures: | No data available. |

Storage

| | |
|----------------------------------|--|
| Safe storage conditions: | Keep container tightly closed. Store in a well-ventilated place. |
| 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 dust mask, as appropriate to situation. |

Hygiene measures: No data available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

| | |
|--|----------------------------------|
| Physical state: | Solid |
| Form: | Granules |
| Color: | White to light yellow |
| Odor: | Slight characteristic odor |
| Odor Threshold: | No data available. |
| Melting Point: | ≥ 100 °C/212 °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: | Not detected |
| Auto-ignition temperature: | No data available. |
| Decomposition Temperature: | No data available. |
| pH: | 8.5 - 9.5 Method: 1% 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): | Insoluble in ethylene glycol, 2-propanol and xylene |

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: No data available.

Particle Size Distribution: No data available.

10. Stability and reactivity

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|--|--|
| Reactivity: | No data available. |
| Chemical Stability: | Stable in general. |
| Possibility of hazardous reactions: | May produce toxic gas when heated above decomposition temperature. Risk of dust explosion. |
| 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: | ATEmix: 1,223 mg/kg |
| Dermal Product: | Classification not possible due to insufficient data. |
| 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: No data available.

Components:

Sodium lauryl sulfate Category 2: (98)

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Sodium lauryl sulfate Category 1: (98)

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:

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: Ames test (TA98, TA100, TA1535, TA1537, TA1538) (OECD TG471):
 Negative (Data on similar 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: No data available.
 Not classified based on available data of component(s).

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:

Toxicity to Aquatic Plants

Product: No data available.

Acute hazards to the aquatic environment:

Fish

Product: LC 50 (Rainbow Trout, 96 h): 3.6 mg/l (OECD TG203) (Data on similar product)

Aquatic Invertebrates

Product: No data available.

Components:

Sodium lauryl sulfate Category 2: (98)

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Sodium lauryl sulfate Category 3: (98)

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:

Not Regulated

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.

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

Chemical substances that cause skin disorders, etc.:

Sodium dodecyl sulfate

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.):

Sodium dodecyl sulfate (From April 1st, 2025) 60 - 70%

Labeling substances:

Sodium dodecyl sulfate (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):

Sodium alkyl(C=8-18) sulfate

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):

Sodium dodecyl sulfate 64%

Fire Service Act:

Not applicable to dangerous materials / designated flammables.

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 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): | Contact us for information |
| Taiwan Chemical Substance Inventory: | On or in compliance with the inventory |

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| 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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Version #: 5.0

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 (98): CESIO RECOMMENDATIONS for the harmonized classification and labelling of surfactants (May 2021)