


SAFETY DATA SHEET**[1.PRODUCT AND COMPANY IDENTIFICATION]**

PRODUCT NAME : EMAL 10G
SUPPLIER : PT. Kao Indonesia Chemicals
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DIVISION : Marketing Department
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RECOMMENDED USE AND RESTRICTIONS ON USE :

[2.HAZARDS IDENTIFICATION]

GHS CLASSIFICATION
PHYSICAL AND CHEMICAL HAZARDS : Not classified
HEALTH HAZARDS
ACUTE TOXICITY (Oral) : Category 4
ACUTE TOXICITY (Dermal) : Classification not possible
ACUTE TOXICITY (Inhalation) : Not applicable(Vapours)
SKIN CORROSION / IRRITATION : Category 2
SERIOUS EYE DAMAGE / EYE IRRITATION : Category 1
RESPIRATORY SENSITIZATION : Classification not possible
SKIN SENSITIZATION : Not classified
GERM CELL MUTAGENICITY : Not classified
CARCINOGENICITY : Not classified
REPRODUCTIVE TOXICITY : Not classified
SPECIFIC TARGET ORGAN TOXICITY
- **SINGLE EXPOSURE** : Not classified
- **REPEATED EXPOSURE** : Not classified
ASPIRATION HAZARD : Classification not possible
ENVIRONMENTAL HAZARDS
HAZARDOUS TO THE AQUATIC ENVIRONMENT
- **ACUTE HAZARD** : Category 2
- **LONG-TERM HAZARD** : Category 3
- **HAZARDOUS TO THE OZONE LAYER** : Classification not possible
GHS LABEL ELEMENTS
PICTOGRAMS OR SYMBOLS : 
SIGNAL WORD : Danger
HAZARD STATEMENTS : 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 : Avoid release to the environment.

RESPONSE	: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection. : IF SWALLOWED: Call a POISON CENTER or 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. IF ON SKIN (or hair): Take off contaminated clothing. Gently wash with plenty of water and soap. If skin irritation occurs, seek medical advice/attention.
STORAGE	:
DISPOSAL	: Passed to a licensed waste contractor.
SAFE HANDLING ADVICE	: Refer to SDS.

[3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE	: Substance
INGREDIENTS AND CONCENTRATION RANGE	: Sodium lauryl sulfate
CAS RN	: 151-21-3

[4.FIRST-AID MEASURES]

IN CASE OF INHALATION	: Remove person to fresh air and keep comfortable for breathing.
IN CASE OF SKIN CONTACT	: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use.
IN CASE OF 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 or doctor.
IN CASE OF INGESTION	: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

[5.FIRE-FIGHTING MEASURES]

EXTINGUISHING MEDIA	: Water spray, powder
NOT SUITABLE EXTINGUISHING MEDIA	: No information available
SPECIFIC HAZARDS	: Produce irritating or toxic gases in a fire.
SPECIFIC METHODS	: Keep away from sources of ignition and use appropriate extinguishing media.Fight fire from upwind position if possible.
PROTECTION OF 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 PROCEDURE	: Use goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation.
ENVIRONMENTAL PRECAUTIONS	: Avoid release to the environment.
METHODS FOR CLEANING UP	: Sweep or vacuum spills.
PREVENTION OF SECONDARY HAZARDS	: No information 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.
PRECAUTIONS	: Avoid contact with eyes.
SAFE HANDLING ADVICE	: Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required. Do not eat, drink or smoke when using this product.
STORAGE	
SUITABLE STORAGE CONDITIONS	: Store container tightly closed in well-ventilated place.
SAFE PACKAGING MATERIALS	: No information available

[8.EXPOSURE CONTROLS / PERSONAL PROTECTION]

ENGINEERING MEASURES	: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use an adequate ventilation.
LIMIT VALUES	
ACGIH (TLV)	: Not established
OSHA (PEL)	: Not established
PERSONAL PROTECTIVE EQUIPMENT	
RESPIRATORY PROTECTION	: Use dust mask, as appropriate to situation.
HAND PROTECTION	: Rubber gloves
EYE PROTECTION	: Safety goggles
SKIN AND BODY PROTECTION	: Full-body suit
HYGIENE MEASURES	: No information available

[9.PHYSICAL AND CHEMICAL PROPERTIES]

APPEARANCE	
PHYSICAL STATE	: Granules
COLOUR	: White to light yellow
ODOUR	: Slightly characteristic odour
pH	: 7.5 - 10.5 (1% solution)
SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR	
BOILING POINT	: No information available
MELTING POINT	: No information available
FLASH POINT	: Not applicable
FLAMMABILITY OR EXPLOSIVE PROPERTIES	
FLAMMABILITY OR EXPLOSIVE LIMITS	: UPPER LIMIT : No information available LOWER LIMIT : No information available
VAPOUR PRESSURE	: No information available
VAPOUR DENSITY	: No information available
DENSITY (SPECIFIC GRAVITY)	: No information available
SOLUBILITY	
WATER SOLUBILITY	: Soluble
SOLVENT SOLUBILITY	: Insoluble in isopropanol, xylene and ethyleneglycol.
PARTITION COEFFICIENT: n-OCTANOL / WATER (log Pow)	: No information available
AUTO-IGNITION TEMPERATURE	: No information available
DECOMPOSITION TEMPERATURE	: No information available
ODOUR THRESHOLD	: No information available
EVAPORATION RATE	: No information available

FLAMMABILITY (SOLID,GAS) : No information available
 VISCOSITY : No information available
 OTHER DATA : No information available

[10.STABILITY AND REACTIVITY]

CHEMICAL STABILITY : Stable in general.
 POSSIBILITY OF HAZARDOUS REACTIONS : This product may produce toxic gas when heated above decomposition.
 CONDITIONS TO AVOID : No information available
 INCOMPATIBLE MATERIALS : No information available
 HAZARDOUS DECOMPOSITION PRODUCTS : No information available
 OTHERS : No information available

[11.TOXICOLOGICAL INFORMATION]

ACUTE TOXICITY

Oral
 INFORMATION ON PRODUCT : Rat, LD50 : 1200 mg/kg (Data on sodium dodecyl sulfate)(8)

Dermal
 INFORMATION ON PRODUCT : No information available

Inhalation
 INFORMATION ON PRODUCT : No information available

SKIN CORROSION / IRRITATION
 INFORMATION ON PRODUCT : Rabbit, 4 hour patch test, 25% : Strong erythema and edema
 (Data on sodium dodecyl sulfate)(48)

SERIOUS EYE DAMAGE / IRRITATION
 INFORMATION ON PRODUCT : Rabbit, Draize test, 20% : Strongly irritating
 (Data on sodium dodecyl sulfate)(48)

RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY
 INFORMATION ON PRODUCT : No information available

SKIN
 INFORMATION ON PRODUCT : Guinea pig, Buehler Test :Negative (Data on sodium dodecyl sulfate)(48)

MUTAGENICITY (GERM CELL MUTAGENICITY)

INFORMATION ON PRODUCT : Ames test (TA98, TA100, WP2try-) : Negative (Data on equivalent product)

CARCINOGENICITY

INFORMATION ON PRODUCT : No information available

IARC : Not listed

NTP : Not listed

EU : Not listed

OSHA : Not listed

REPRODUCTIVE TOXICITY

INFORMATION ON PRODUCT : No information available

SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE

INFORMATION ON PRODUCT : No information available

- REPEATED EXPOSURE

INFORMATION ON PRODUCT : No information available

ASPIRATION HAZARD

INFORMATION ON PRODUCT : No information available

OTHER INFORMATION : No information available

[12.ECOLOGICAL INFORMATION]

ECOTOXICITY

- : Fathead Minnow, 96h, LC50 : 29 mg/L
(Data on Sodium dodecyl sulphate)(88)
- Daphnia magna, 48h, EC50 : 5.55 mg/L
(Data on Sodium dodecyl sulphate)(88)
- Algal inhibition test, 72h, ErC50 : > 120 mg/L
(Data on Sodium dodecyl sulphate)(88)
- Fathead minnow, 42d., NOEC : 1.357 mg/L
(Data on Sodium dodecyl sulphate)(88)
- Daphnia magna, Reproduction Test(7d.), NOEC : 0.88 mg/L
(Data on Sodium dodecyl sulphate)(88)
- Algal inhibition test, OECD201, 72h, NOEbC : 30 mg/L
(Data on Sodium dodecyl sulphate)(88)

PERSISTENCE / DEGRADABILITY

: No information available

MOBILITY IN SOIL

: No information available

BIOACCUMULATIVE POTENTIAL

: No information available

OTHER ADVERSE EFFECTS

- : BOD5 : 1.3 g/g (JIS K0102) (Data on similar product)
- COD(Cr) : 1.7 g/g (JIS K0102) (Data on similar product)

[13.DISPOSAL CONSIDERATIONS]

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.

Dispose of waste in accordance with local, state and federal regulations.

[14.TRANSPORT INFORMATION]

Follow all regulations in your country or region

INTERNATIONAL REGULATIONS

- UN CLASS / UN NUMBER : Not applicable (IMDG, IATA)
- SPECIAL PRECAUTIONS FOR USER : Review "ACCIDENTAL RELEASE MEASURES (Section 6)".
Review "HANDLING AND STORAGE (Section 7)".
Ensure containers without breakage or leakage.
Ensure containers tightly fixed.
Follow all regulations in your country or region.

[15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

- | | | | |
|-------------|---|--------------------|-----------|
| INVENTORIES | : | ENCS(Japan) | 2-1679 |
| | | TSCA(USA) | Yes |
| | | EINECS(EU) | 205-788-1 |
| | | AICS(Australia) | Yes |
| | | DSL(Canada) | Yes |
| | | ECL(Korea) | KE-21884 |
| | | PICCS(Philippines) | Yes |
| | | IECSC(China) | Yes |
| | | TCSI(Taiwan) | Yes |

KAO Corporation is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

[16.OTHER INFORMATION]

REFERENCE

- : -Safety data sheet for chemical products - Part 1: Content and order of sections(ISO 11014-1)
- International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)
- (8)OECD SIDS
- (48)Human & Environmental Risk Assessment on ingredients of European household cleaning products (HERA)
- (88)ECHA-REACH Registered Substances Database

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