

MATERIAL SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : EMAL 10N
SUPPLIER : P.T.Kao Indonesia Chemicals
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RECOMMENDED USE :
AND RESTRICTIONS ON USE :

[2.HAZARDS IDENTIFICATION]

MOST IMPORTANT HAZARDS AND EFFECTS :

GHS CLASSIFICATION

PHYSICAL AND CHEMICAL HAZARDS : Not classified

HEALTH HAZARDS

ACUTE TOXICITY (Oral) : Category 4
ACUTE TOXICITY (Dermal) : Category 4
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 : Classification not possible
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY
- SINGLE EXPOSURE : Classification not possible
- REPEATED EXPOSURE : Classification not possible
ASPIRATION HAZARD : Classification not possible

ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE TOXICITY : Category 2
- CHRONIC TOXICITY : Not classified

GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS



SIGNAL WORD : Danger
HAZARD STATEMENTS : Harmful if swallowed
Harmful in contact with skin
Causes skin irritation
Causes serious eye damage
Toxic to aquatic life

PRECAUTIONARY STATEMENTS

PREVENTION : Avoid release to the environment.
Do not eat, drink or smoke when using this product.

	Wash thoroughly after handling. Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.
RESPONSE	: IF SWALLOWED: Call a POISON CENTER or doctor/physician 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 CENTRE or doctor/physician. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Gently wash with plenty of soap and water. If skin irritation occurs, seek medical advice/attention. Call a POISON CENTRE or doctor/physician if you feel unwell.
STORAGE	:
DISPOSAL	: Passed to a licensed waste contractor.
SAFE HANDLING ADVICE	: Refer to MSDS.

[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 to fresh air and keep at rest in a position comfortable for breathing.
IN CASE OF SKIN CONTACT	: Gently wash with plenty of soap and water. If skin irritation occurs, seek medical advice/attention. Call a POISON CENTRE or doctor/physician if you feel unwell.
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 CENTRE or doctor/physician.
IN CASE OF INGESTION	: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

[5.FIRE-FIGHTING MEASURES]

EXTINGUISHING MEDIA	: Powder, alcohol-resistant foam, water spray, carbon dioxide,sand
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 another 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 mask, goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation. Treat from upwind position.
ENVIRONMENTAL PRECAUTIONS	: Avoid release to the environment.
METHODS FOR CLEANING UP	: Prevent dispersion of dust. Sweep or vacuum by dust-explosion-proof type cleaner.

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 and skin.
Avoid inhalation of fine dust .

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.
This material may cause risk of dust explosion.

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 local exhaust ventilation, in case of generation of dust.

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 glasses with side shield(Safety goggles or Face shield)

SKIN AND BODY PROTECTION : Full-body suit

HYGIENE MEASURES : No information available

[9.PHYSICAL AND CHEMICAL PROPERTIES]

PHYSICAL STATES

FORM : Needles

COLOUR : White to light yellow

ODOUR : Slightly characteristic odour

pH : 7 (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

SPECIFIC GRAVITY (DENSITY) : 0.54 g/mL

SOLUBILITY

WATER SOLUBILITY : 1-10% at 25C(Clear liquid)

SOLVENT SOLUBILITY	: Insoluble in isopropanol, xylene and ethyleneglycohl.
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	: No information available
POSSIBILITY OF HAZARDOUS REACTIONS	: This product may produce toxic gas when heated above decomposition. This material may cause risk of dust explosion.
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	: Guinea pig, LD50 : > 1200 mg/kg (Data on sodium dodecyl sulfate)(8)
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 Rec-assay (H17, M45) : Negative
CARCINOGENICITY	
INFORMATION ON PRODUCT	: AS (Alcohol Sulphates) are not carcinogenic (48)
IARC	: Not listed
NTP	: Not listed
EU	: Not listed

OSHA : Not listed

REPRODUCTIVE TOXICITY INFORMATION ON PRODUCT : No information available

SPECIFIC TARGET ORGAN SYSTEMIC 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 : Data on sodium dodecyl sulphate(3)
Brachydanio rerio, 96h LC50 : 7.97 mg/L
Daphnia magna, 48h EC50 : 4.6 mg/L
Scenedesmus subspicatus, 72h EC50 : 53 mg/L

PERSISTENCE / DEGRADABILITY : OECD301 : Readily biodegradable (8)

MOBILITY IN SOIL : No information available

BIOACCUMULATIVE POTENTIAL : No information available

OTHER ADVERSE EFFECTS : No information available

[13.DISPOSAL CONSIDERATIONS]

Review "HANDLING AND STORAGE (Section 7)".
Passed to a licensed waste contractor.
This product may cause risk of dust explosion.
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

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

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)
(3)IUCLID
(8)OECD SIDS
(48)Human & Environmental Risk Assessment on ingredients of European household cleaning products (HERA)

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