

SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : KAO WAX EB-G
SUPPLIER : Kao Oleochemical (Malaysia) Sdn. Bhd.
ADDRESS : Lorong Perusahaan Satu,Prai Industrial Complex, 13600 Prai, Penang,
MALAYSIA
DIVISION :
TELEPHONE NUMBER : 60-4-399-8500
FAX NUMBER : 60-4-390-3858
E-MAIL ADDRESS :
EMERGENCY TELEPHONE NUMBER : 60-4-399-8500
RECOMMENDED USE :
AND RESTRICTIONS ON USE :

[2.HAZARDS IDENTIFICATION]

GHS CLASSIFICATION

PHYSICAL AND CHEMICAL HAZARDS : Not classified

HEALTH HAZARDS

ACUTE TOXICITY (Oral) : Not classified
ACUTE TOXICITY (Dermal) : Not classified
ACUTE TOXICITY (Inhalation) : Not applicable(Vapours)
SKIN CORROSION / IRRITATION : Not classified
SERIOUS EYE DAMAGE / EYE IRRITATION : Not classified
RESPIRATORY SENSITIZATION : Classification not possible
SKIN SENSITIZATION : Classification not possible
GERM CELL MUTAGENICITY : Classification not possible
CARCINOGENICITY : Classification not possible
REPRODUCTIVE TOXICITY : Not classified
SPECIFIC TARGET ORGAN TOXICITY
- SINGLE EXPOSURE : Classification not possible
- REPEATED EXPOSURE : Not classified
ASPIRATION HAZARD : Classification not possible

ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE HAZARD : Not classified
- LONG-TERM HAZARD : Not classified
- HAZARDOUS TO THE OZONE LAYER : Classification not possible

GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS : Not applicable
SIGNAL WORD : Not applicable
HAZARD STATEMENTS : Not applicable

PRECAUTIONARY STATEMENTS

PREVENTION : Wash thoroughly after handling.
If needed, use personal protective equipment as required.
RESPONSE : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN: Gently wash with plenty of water and soap.
Call a POISON CENTER or doctor if you feel unwell.
STORAGE : Store in well-ventilated place.

DISPOSAL :
SAFE HANDLING ADVICE : Refer to SDS.

[3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE : Substance
INGREDIENTS AND CONCENTRATION RANGE : N,N'-Ethylenebis(stearamide)
CAS RN : 110-30-5

[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.
IN CASE OF EYE CONTACT : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IN CASE OF INGESTION : Call a POISON CENTER or doctor if you feel unwell.

[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 nitrogen 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 : Do not discharge into the drains, surface waters or ground water directly.
METHODS FOR CLEANING UP : Prevent dispersion of dust.
Sweep or vacuum by dust-explosion-proof type cleaner.
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.
PRECAUTIONS : Keep away from source of ignition.
Avoid inhalation of fine dust .
SAFE HANDLING ADVICE : Use an adequate ventilation.
Wash thoroughly after handling.
If needed, use personal protective equipment as required.
Prevent generation of dust.
This material may cause risk of dust explosion.
STORAGE
SUITABLE STORAGE CONDITIONS : Store container tightly closed in well-ventilated place.
Keep away from source of ignition.
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) : 10 mg/m³ TWA (inhalable particles, recommended); 3 mg/m³ TWA (respirable particles, recommended)(Particulates (insoluble or poorly soluble) not otherwise specified (PNOS))

OSHA (PEL) : 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction) (Particulates not otherwise regulated)

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]

APPEARANCE

PHYSICAL STATE : Powder

COLOUR : White

ODOUR : Slightly characteristic odour

pH : 7.2 (1% suspension(n-butanol/water=9/1))

SPECIFIC TEMPERATURES / TEMPERATURE RANGES
AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : No information available

MELTING POINT : 141.5 - 146.5 °C (286.7 - 295.7 °F)

FLASH POINT : 296 °C (564.8 °F) (CLEVELAND open cup method)

FLAMMABILITY OR EXPLOSIVE PROPERTIES

FLAMMABILITY OR EXPLOSIVE LIMITS : UPPER LIMIT : No information available LOWER LIMIT : No information available

VAPOUR PRESSURE : 13 Pa (25 °C) (77 °F)

VAPOUR DENSITY : No information available

DENSITY (SPECIFIC GRAVITY) : 0.64 g/mL (20 °C) (68 °F)
0.815 g/mL (160 °C) (320 °F)
0.794 g/mL (190 °C) (374 °F)

SOLUBILITY

WATER SOLUBILITY : Insoluble

SOLVENT SOLUBILITY : Slightly soluble in toluene and butyl alcohol

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 : 10 mPa.s (180 °C) (356 °F)
5 mPa.s (190 °C) (374 °F)
4 mPa.s (200 °C) (392 °F)

OTHER DATA : No information available

[10.STABILITY AND REACTIVITY]

CHEMICAL STABILITY	: Stable in general.
POSSIBILITY OF HAZARDOUS REACTIONS	: No information available
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 : > 2000 mg/kg (male, female)

Dermal

INFORMATION ON PRODUCT : No information available

Inhalation

INFORMATION ON PRODUCT : No information available

SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT : Rabbit, undiluted, 4 hours semi-occluded application test (OECD404) :
Non-irritant

SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT : Rabbit, undiluted, OECD405 : Mild irritant

RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY

INFORMATION ON PRODUCT : No information available

SKIN

INFORMATION ON PRODUCT : No information available

MUTAGENICITY (GERM CELL MUTAGENICITY)

INFORMATION ON PRODUCT : Ames test (TA98, TA100) : Negative

Chromosomal aberration test (CHL cells) : Negative
(Data on 1,2-Bis(stearoylamino)ethane)(4)

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 : Rat, 28 days repeated dose oral toxicity test :
NOEL (no observed effect level) = 1000 mg/kg/day
(Data on 1,2-Bis(stearoylamino)ethane)(4)

ASPIRATION HAZARD

INFORMATION ON PRODUCT : No information available

OTHER INFORMATION

: No information available

[12.ECOLOGICAL INFORMATION]

ECOTOXICITY	: Red killifish, 96h, LC50 : > 0.027 mg/L Daphnia magna, 48h, EC50 : > 0.0022 mg/L Algal inhibition test, 72h, EC50 : > 0.053 mg/L 24-72h, NOECr : > 0.053 mg/L (Data on N-(2-Octadecanoylaminoethyl)octadecanamide-Commercial Grade) (12) Reproduction Test(21d.), OECD 211, NOEC : > 0.00564 mg/L (Data on N-(2-Octadecanoylaminoethyl)octadecanamide-Commercial Grade) (12)
PERSISTENCE / DEGRADABILITY	: OECD301C : % biodegradation by BOD = 1.1% (14 days) (Data on 1,2-Bis(stearoylamino)ethane) (4)
MOBILITY IN SOIL	: No information available
BIOACCUMULATIVE POTENTIAL	: OECD305C : BCF < 6.2 (Data on 1,2-Bis(stearoylamino)ethane) (4)
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 nitrogen 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. Keep away from source of ignition.

[15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

INVENTORIES	: ENCS(Japan)	2-831
	TSCA(USA)	Yes
	EINECS(EU)	203-755-6
	AICS(Australia)	Yes
	DSL(Canada)	Yes
	ECL(Korea)	KE-13662
	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)
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-International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)

(4)Biodegradation and Bioconcentration of the Existing Chemical Substances under the Chemical Substances Control Law

(12)Results of Eco-toxicity tests of chemicals conducted by Ministry of the Environment in Japan

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