

SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : ELEC HS-12N
 SUPPLIER : Kao Corporation
 ADDRESS : 1-3,Bunka 2-chome,Sumida-ku,Tokyo 131-8501 Japan
 DIVISION : Global Chemical Business
 TELEPHONE NUMBER : 81-3-5630-7700
 FAX NUMBER : 81-3-5630-7889
 E-MAIL ADDRESS : chemical@kao.co.jp
 EMERGENCY TELEPHONE NUMBER : 81-3-5630-7700
 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 : Category 2
 SERIOUS EYE DAMAGE / EYE IRRITATION : Category 1
 RESPIRATORY SENSITIZATION : Classification not possible
 SKIN SENSITIZATION : Classification not possible
 GERM CELL MUTAGENICITY : Classification not possible
 CARCINOGENICITY : Category 2
 REPRODUCTIVE TOXICITY : Classification not possible
 SPECIFIC TARGET ORGAN TOXICITY
 - SINGLE EXPOSURE : Category 2(liver)
 - REPEATED EXPOSURE : Classification not possible
 ASPIRATION HAZARD : Classification not possible

ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE HAZARD : Category 3
 - LONG-TERM HAZARD : Category 2
 - HAZARDOUS TO THE OZONE LAYER : Classification not possible

GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS :



SIGNAL WORD : Danger
 HAZARD STATEMENTS : Causes skin irritation
 Causes serious eye damage
 Suspected of causing cancer
 May causes damage to organs (liver)
 Harmful to aquatic life
 Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS

PREVENTION : Obtain special instructions before use.

- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Avoid release to the environment.
- Do not eat, drink or smoke when using this product.
- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/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.
- 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.
- Collect spillage.
- STORAGE : Store locked up.
- DISPOSAL : Passed to a licensed waste contractor.
- SAFE HANDLING ADVICE : This product may be melted or solidified according to the storage conditions or after the long time storage. Please do not transport or store under high temperature condition.

[3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE : Mixture

INGREDIENTS AND CONCENTRATION RANGE

Ingredients	Concentration Range(%)	CAS RN
Lauryl diethanolamide	Confidential	120-40-1
Diethanolamine	1 - 2	111-42-2
Other components	Confidential	

[4.FIRST-AID MEASURES]

- IN CASE OF INHALATION : Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical attention/advice.
- IN CASE OF SKIN CONTACT : 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.
IF exposed or concerned: Get medical attention/advice.
- 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.
IF exposed or concerned: Get medical attention/advice.

[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.
Do not flow the materials causing adverse effects into the environment with effluent fire extinguishing agents.
- 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 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 to drums or containers.
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. This product may be melted or solidified according to the storage conditions or after the long time storage. Please do not transport or store under high temperature condition.
SAFE HANDLING ADVICE	: Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product.

STORAGE

SUITABLE STORAGE CONDITIONS	: Store container tightly closed in well-ventilated place. Store locked up.
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)	: TWA 1 mg/m3(Inhalable fraction and vapor),STEL - (Skin) Diethanolamine TWA (10 mg/m3(E)),STEL (-) Calcium silicate, synthetic nonfibrous
OSHA (PEL)	: PEL TWA Total dust 15mg/m3, TWA Respirable fraction 5mg/m3, (2012 year edition) Calcium silicate
PERSONAL PROTECTIVE EQUIPMENT	
RESPIRATORY PROTECTION	: Use 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	: Needles
COLOUR	: White
ODOUR	: Slightly characteristic odour
pH	: No data available

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 : Separated from the emulsion
 SOLVENT SOLUBILITY : Soluble in ethanol or n-hexane.
 Soluble in acetone and chloroform.
 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 : No self-reactivity.
 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
 INFORMATION ON INGREDIENTS : No information available

Inhalation

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available

SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT : Rabbit, undiluted, 4 hours semi-occluded application test (OECD404) :
 P.I.I. = 3.7

SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT : Rabbit, undiluted, OECD405 : MAS = 37.0

RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

SKIN

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

MUTAGENICITY (GERM CELL MUTAGENICITY)

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

INFORMATION ON INGREDIENTS : No information available

CARCINOGENICITY

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : Diethanolamine: Category 2

IARC : Group 2B: Possibly carcinogenic to humans.

Diethanolamine

Group 3: Not classifiable as to its carcinogenicity to humans.

Silica, amorphous

NTP : Not listed

EU : Not listed

OSHA : Not listed

REPRODUCTIVE TOXICITY

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : Diethanolamine: Category 1 (liver); Ref.(1)

- REPEATED EXPOSURE

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : Diethanolamine: Category 2 (liver, kidney, blood, central nervous system);
Ref.(88): Containing a substance of less than concentration limits triggering
classification.

ASPIRATION HAZARD

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

OTHER INFORMATION

: No information available

[12.ECOLOGICAL INFORMATION]

ECOTOXICITY

: Rainbow trout, 96h, LL50 : 13 mg/L (LL = Lethal Loading Rate)

ACUTE HAZARD

: 36% of the mixture consists of ingredient(s) of unknown hazards to the
aquatic environment

LONG-TERM HAZARD

: 36% of the mixture consists of ingredient(s) of unknown hazards to the
aquatic environment

PERSISTENCE / DEGRADABILITY

: CO2 evolution test (OECD301B) : 83 % (28 days)

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.

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	:	Class 9 / UN3077	
IATA	:	UN Number	UN3077
		Proper Shipping Name	Environmentally Hazardous Substance, Solid, n.o.s.(containing Lauryl diethanolamide)
		Class	9
		Packing Group	III
IMDG	:	UN Number	UN3077
		Proper Shipping Name	Environmentally Hazardous Substance, Solid, n.o.s.(containing Lauryl diethanolamide)
		Class	9
		Packing Group	III
		Additional Information	Marine pollutant
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. Emergency Response Guide(ERG) Numbers : 171	

[15. REGULATORY INFORMATION]

Follow all regulations in your country or region.

INVENTORIES	:	ENCS(Japan)	Yes
		TSCA(USA)	Yes
		EINECS(EU)	Yes
		AICS(Australia)	Yes
		DSL(Canada)	No(NDSL)
		ECL(Korea)	Yes
		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) (1)GHS Classification Database, National Institute of Technology and Evaluation (NITE) (88)ECHA-REACH Registered Substances Database
-----------	---	---

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.