

SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : ELEC HS-12PA
 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
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 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 : Not classified
 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 2
 - 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 serious eye damage
 Suspected of causing cancer
 May causes damage to organs (liver)
 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: Gently wash with plenty of water and soap.
 IF exposed or concerned: Get medical advice/attention.
 Collect spillage.

STORAGE : Store locked up.

DISPOSAL : Passed to a licensed waste contractor.

SAFE HANDLING ADVICE :

[3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE : Mixture

INGREDIENTS AND CONCENTRATION RANGE

Ingredients	Concentration Range(%)	CAS RN
Lauryl diethanolamide	Confidential	Confidential
Diethanolamine	Confidential	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 : Gently wash with plenty of soap and water.
 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 : IF exposed or concerned: Get medical attention/advice.
 Call a POISON CENTER or doctor if you feel unwell.

[5.FIRE-FIGHTING MEASURES]

EXTINGUISHING MEDIA : Powder, alcohol-resistant foam, 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.
 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 : Small spills: Absorb spills with sand, inert absorbent, waste cloth or sawdust. Then wipe up remainder in waste cloth.
Large spills: Dike spills and dispose of in safe area.
- 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 contact with eyes.
- 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.
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 an adequate ventilation.
- LIMIT VALUES
- ACGIH (TLV) : TWA 1 mg/m3(Inhalable fraction and vapor),STEL - (Skin)
Diethanolamine
- OSHA (PEL) : Not established
- 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 : Paste
- 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 : 43 °C (109.4 °F)
- FLASH POINT : 187 °C (368.6 °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	:	No information available		
VAPOUR DENSITY	:	No information available		
DENSITY (SPECIFIC GRAVITY)	:	0.976 g/mL (40 °C) (104 °F)	
		0.952 g/mL (70 °C) (158 °F)	
		0.929 g/mL (100 °C) (212 °F)	
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	:	160 mPa.s (40 °C) (104 °F)	
		21 mPa.s (70 °C) (158 °F)	
		13 mPa.s (100 °C) (212 °F)	
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	:	No information available
INFORMATION ON INGREDIENTS	:	Diethanolamine: Category 4; Ref.(88)
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	:	No information available
INFORMATION ON INGREDIENTS	:	Diethanolamine: Category 2; Ref.(88)
SERIOUS EYE DAMAGE / IRRITATION		
INFORMATION ON PRODUCT	:	No information available
INFORMATION ON INGREDIENTS	:	Lauryl diethanolamide: Category 1 Diethanolamine: Category 1; Ref.(88)
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	: No information available
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
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	: No information available
ACUTE HAZARD	: 45% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment
LONG-TERM HAZARD	: 45% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment
PERSISTENCE / DEGRADABILITY	: No information available
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 / UN3082
IATA	:	UN Number UN3082
		Proper Shipping Name Environmentally Hazardous Substance, Liquid, n.o.s.(containing Lauryl diethanolamide)
		Class 9
		Packing Group III
IMDG	:	UN Number UN3082
		Proper Shipping Name Environmentally Hazardous Substance, Liquid, 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. Keep away from source of ignition. 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
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