

Product name: ELH-100 Clear SDS No. 037-U328539

Date of issue: 2025/02/20 Date of revision: 2025/05/30

1. IDENTIFICATION

Product Identifier : ELH-100 Clear

Product code : ELH100-CL-BA / ELH100-CL-B2 / ELH100-CL-60 / ELH100-CL-

22

Recommended use and restriction use : INK JET ink

Supplier name : MIMAKI ENGINEERING CO., LTD.

Address : 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN

Telephone number : +81-268-64-2413

Importer / Distributor name : MIMAKI SINGAPORE PTE. LTD.

Address : 31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03

Telephone number : +65-6508-2789

Emergency telephone number : +65 3165 2217 (within Singapore only)

+65 3158 1074

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Health hazards : Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1

Sensitization - skin Category 1

GHS LABEL ELEMENTS

Pictograms :



Signal Word : Danger

Hazard Statements : H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

Precautionary Statements

Prevention : Avoid breathing mist, vapours and spray. (P261)

Wash thoroughly after handling.(P264)

Contaminated work clothing should not be allowed out of the

workplace.(P272)

Wear protective gloves/protective clothing/eye protection/face

protection(P280)

Response : IF ON SKIN: Wash with plenty of soap and water(P302+P352)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing(P305+P351+P338)

Immediately call a POISON CENTER/doctor(P310)

If skin irritation or rash occurs: Get medical

advice/attention(P333+P313)

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Take off contaminated clothing and wash it before

reuse.(P362+P364)

Storage Not applicable.

Disposal Dispose of waste in accordance with local state and federal

regulations.(P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances or mixtures	: Mixtures	
Chemical name	Contents	CAS RN
2-Propenoic acid, 2-[2-	30-40%	86273-46-3
(ethenyloxy)ethoxy]ethyl ester		
Acrylate monomer	15-25%	Confidential
1,6-Hexanediol diacrylate	10-20%	13048-33-4
Dipropylene Glycol Diacrylate	5-15%	57472-68-1
2-Hydroxy-3-phenoxypropyl Acrylate	5-15%	16969-10-1
Photo initiator	5-15%	Confidential
4-hydroxy-2,2,6,6-	0.1-5%	2226-96-2
tetramethylpiperidinoxyl		
Additive	0.1-5%	Confidential

4. FIRST-AID MEASURES

Inhalation : Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Take of contaminated

clothing and wash before re-use. Get medical attention if symptoms

occur.

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the

upper and lower eyelids. Check for and remove any contact lenses.

IF exposed or concerned: Get medical advice and attention.

Ingestion : Rinse mouth. Do not induce vomiting unless directed to do so by

medical personnel. IF exposed or concerned: Get medical advice and

attention.

5. FIRE-FIGHTING MEASURES

Suitable fire-extinguishing media

Not suitable extinguishing media

Specific hazards arising from the

Special protective actions for fire

fighters

Dry chemicals, CO2, water spray or regular foam.

Cylindric water.

Risk of producing harmful gases such as carbon monoxide. Avoid

inhalation of smoke or gases.

: Use goggles in combination with dust mask, and another protections

as appropriate to situation.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Environmental precautions

Put on appropriate personal protective equipment. Large spills :Evacuate area. Ensure adequate ventilation.

: Collect spillage. Avoid dispersal of spilled material and runoff and

contact with soil, waterways, drains and sewers.

Methods and materials for containment

and cleaning up

Small spill: absorb with material such as non-combustible materialwash thoroughly after handling.

Large spills: Dike spills and dispose of in safe area.

Prevention Measures for Secondary

Accidents

: Keep away from sources of ignition and prepare extinguishing media.

Risk of slipping. Spilled material forms slippery floor. Do not

recklessly walk on the spillage.

7. HANDLING AND STORAGE

Handling

Technical measures

: Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Safe handling advice

Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye

protection/face protection. Contaminated work clothing should not

be allowed out of the workplace. Do not breathe

dust/fume/gas/mist/vapours/spray. Obtain special instructions

before use.

Storage

Suitable storage conditions

: Store in well-ventilated place. Store locked up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

No data available

Engineering measures

: Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use explosion-proof electrical equipment and prevent from static electricity.

Individual protection measures

Respiratory protection

If necessary, wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

: Wear eye protection/face protection.

Skin and body protection

Wear protective clothing.

Hygiene measures

: Wash hand thoroughly after handling.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State : Liquid Color : Clear

Odor : Unique odor

Odor threshold : No data available pH : No data available Melting point : No data available Boiling point : No data available : No data available

Flash point : >=120°C

Evaporation rate : No data available Flammability(Solid,Gas) : Combustible Flammability or explosive limits : No data available Vapor pressure : No data available Vapor density : No data available

Relative density : 1.0-1.2

Solubility(ies) : Non-water-soluble

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : 23±3mPa·s(25°C)

10. STABILITY AND REACTIVITY

Reactivity : Stable under normal conditions of use.
Chemical stability : Stable under normal conditions of use.

Possibility of hazardous reactions : Polymerization and curing may occur when exposed to light,

particularly ultraviolet rays.

Conditions to avoid : Heat source, storage near fire source, direct sunlight, ultraviolet

rays.

Incompatible materials : Strong oxidizing agents, radical initiator, inert gas, oxygen scavenger.

Hazardous decomposition products : Combustion may produce toxic gas, carbon monoxide and carbon

dioxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (Oral) : Category 4:2226-96-2 (converted value = 500mg/kg, source:

Registered substances (ECHA)), 86273-46-3 (toxicity value =

1908mg/kg, source: Self-classification)

Category 5:57472-68-1 (toxicity value = 3530mg/kg, source: Self-

classification)

Classification not possible:13048-33-4 (source: 1272/2008/EC),

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16969-10-1 (source: Registered substances (ECHA)), Confidential

(source: NITE), Confidential (source: 1272/2008/EC)

No data:Confidential

Calculation result = 2032.8524617mg/kg. Classification result =

Classification not possible.

Acute toxicity (Dermal) Unable to classify due to insufficient data.

Acute toxicity (Inhalation : Gases) Does not fall under gas based on GHS definitions.

Acute toxicity (Inhalation: Vapours) Unable to classify due to insufficient data. Acute toxicity (Inhalation : dust/mist) Unable to classify due to insufficient data.

Skin corrosion/ Irritation Category 2:13048-33-4 (source: 1272/2008/EC), 57472-68-1

(source: Self-classification)

Classification not possible:2226-96-2 (source: Registered

substances (ECHA)), 16969-10-1 (source: Registered substances

(ECHA)), Confidential (source: NITE), Confidential (source: 1272/2008/EC), 86273-46-3 (source: Self-classification)

No data:Confidential

Sum of Category 2 Concentration limit = 10%. Classification result =

Category 2.

: Category 1:2226-96-2 (source: Registered substances (ECHA)), Serious eye damage/irritation

16969-10-1 (source: Registered substances (ECHA)), 57472-68-1

(source: Self-classification)

Category 2:13048-33-4 (source: 1272/2008/EC)

Classification not possible:Confidential (source: NITE), Confidential (source: 1272/2008/EC), 86273-46-3 (source: Self-classification)

No data:Confidential

Sum of Eye category 1 Concentration limit = 3%. Classification result

= Category 1.

Respiratory Sensitization Unable to classify due to insufficient data.

Skin Sensitization Category 1:13048-33-4 (source: 1272/2008/EC), 57472-68-1

(source: Self-classification), 86273-46-3 (source: Self-classification)

Category 1A:Confidential (source: 1272/2008/EC)

Category 1B:16969-10-1 (source: Registered substances (ECHA))

Classification not possible:2226-96-2 (source: Registered

substances (ECHA)). Confidential (source: NITE)

No data:Confidential

86273-46-3 >= 1% Classification result = Category 1

Germ cell mutagenicity : Unable to classify due to insufficient data.

Carcinogenicity : Unable to classify due to insufficient data.

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Reproductive toxicity

Reproductive toxicity, effects on or via

lactation

Specific target organ toxicity - Single

Exposure

Specific target organ toxicity -

Repeated Exposure

: Unable to classify due to insufficient data.

: Unable to classify due to insufficient data.

: Unable to classify due to insufficient data.

: Category 2:2226-96-2 (organ = spleen, liver, source: Registered

substances (ECHA))

Classification not possible:13048-33-4 (source: 1272/2008/EC), 16969-10-1 (source: Registered substances (ECHA)), Confidential (source: NITE), 57472-68-1 (source: Self-classification), Confidential (source: 1272/2008/EC), 86273-46-3 (source: Self-classification)

No data:Confidential

Substances classified as hazardous are below the concentration limit. Contains substance of unknown toxicity. Changed from Not

classified to Classification not possible.

Aspiration hazard : Unable to classify due to insufficient data.

12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment - :

Acute Toxicity

Classification not possible:2226-96-2 (source: Registered substances (ECHA)), 13048-33-4 (source: 1272/2008/EC), 16969-10-1 (source: Registered substances (ECHA)), Confidential (source:

NITE), 57472-68-1 (source: Self-classification), Confidential (source: 1272/2008/EC), 86273-46-3 (source: Self-classification)

No data:Confidential

Contains substance of unknown toxicity. Changed from Not

classified to Classification not possible.

Hazardous to the Aquatic Environment –

Chronic Toxicity

Category 2:16969-10-1 (source: Registered substances (ECHA))

Category 3:86273-46-3 (source: Self-classification)
Category 4:Confidential (source: 1272/2008/EC)

Classification not possible:2226-96-2 (source: Registered substances (ECHA)), 13048-33-4 (source: 1272/2008/EC),

Confidential (source: NITE), 57472-68-1 (source: Self-classification)

No data:Confidential

(M factor x 100 x Category 1) + (10 x Category 2) + Category 3 >= Concentration limit(25%). Classification result = Category 3. does

not apply to the target country.

Hazardous to the Ozone layer : Unable to classify due to insufficient data.

13. DISPOSAL CONSIDERATIONS

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Residual Waste Disposal should be in accordance with applicable regional, national

and local laws and regulations. Passed to a licensed waste

contractor.

Contaminated Container and Packaging Disposal should be in accordance with applicable regional, national

> and local laws and regulations. Passed to a licensed waste contractor. In case of disposal of empty containers, remove the

content thoroughly.

14. TRANSPORT INFORMATION

International regulations

Sea(IMDG)

UN number 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. UN proper shipping name

Transport hazard class(es) ${\rm I\hspace{-.1em}I\hspace{-.1em}I}$ Packing group

Air(IATA)

UN number 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. UN proper shipping name

Transport hazard class(es) 9 ${\rm I\hspace{-.1em}I\hspace{-.1em}I}$ Packing group

15. REGULATORY INFORMATION

No main regulation

16. OTHER INFORMATION

Literature References SDS of raw material

National Institute of Technology and Evaluation (NITE) GHS

Classifications List

Regulation (EC) 1272/2008 Annex VI

Regulation (EC) 1907/2006 registered substances

Other data The information suggested in this Safety Data Sheet does not

> comprehend everything and should be adopted only as a guide. The accuracy of the information and recommendations suggested herein are credible. However the company makes no warranty regarding such information and recommendations and disclaims all

liability for reliance thereon.