

Safety Data Sheet

1. IDENTIFICATION

Product identifier Product code	: ELH-100 Clear : ELH100-CL-BA / ELH100-CL-B2 / ELH100-CL-60 / ELH100-CL-
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Recommended use of the chemical and	: INK JET ink
restrictions on use	
Manufacturer	
Company name	: MIMAKI ENGINEERING CO., LTD.
Address	: 2182–3 Shigeno-otsu, Tomi-shi, Nagano 389–0512 JAPAN
Telephone number	: +81-268-64-2413
Importer / Distributor	
Company name	: MIMAKI USA, INC.
Address	: 4851 Thurmon Tanner Parkway, STE 100 Flowery Branch, GA
	30542, U.S.A.
Telephone number	: +1-678-730-0170
Emergency Telephone No.	: +1 866 928 0789 (within United States only, Toll free)
	+1 215 207 0061

2. HAZARDS IDENTIFICATION

Classification of the chemical in		
accordance with paragraph (d) of 29		
CFR § 1910.1200		

: Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 1 Sensitization - skin Category 1

GHS Label Elements Symbols

> Signal Word Hazard Statements

> > Response

Precautionary Statements Prevention



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- : Danger : H315 Causes skin irritation H317 May cause an allergic skin reaction
 - H318 Causes serious eye damage
- : 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)
- : IF ON SKIN: Wash with plenty of soap and water(P302+P352)



Storage

Disposal

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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 or doctor.(P310)
If skin irritation or rash occurs: Get medical advice/attention(P333+P313)
Take off contaminated clothing and wash it before reuse.(P362)
Not applicable.
Dispose of waste in accordance with local,state and federal

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances or mixtures	: Mixtures	
Chemical name	Contents	CAS number
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	1-10%	Confidential
4-hydroxy-2,2,6,6-	0.1-5%	2226-96-2
tetramethylpiperidinoxyl		
Additive	0.1-5%	Unknown

regulations.(P501)

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 extinguishing media	: Dry chemicals, CO2, water spray or regular foam.

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Unsuitable extinguishing media	: Cylindric water.
Specific hazards arising from the	: Risk of producing harmful gases such as carbon monoxide. Avoid
chemical	inhalation of smoke or gases.
Special protective equipment and	: Use goggles in combination with dust mask, and another protections
precautions for fire-fighters	as appropriate to situation.

6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	: Put on appropriate personal protective equipment. Large spills :Evacuate area. Ensure adequate ventilation.
Environmental precautions	: 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.

7. HANDLING AND STORAGE

Precautions for safe 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.
Conditions for safe storage, including any incompatibilities	

Suitable storage conditions : Store in well-ventilated place. Store locked up.

Control parameters	: No data available
Appropriate engineering controls	: 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 electrica equipment and prevent from static electricity.
Individual protection measures	
Respiratory protection	: If necessary, wear respiratory protection.
Hand protection	: Wear protective gloves.



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Eye protection	:	Wear eye protection/face protection.
Skin and body protection	:	Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

:	Liquid
:	Clear
:	Unique odor
:	No data available
:	>=120°C
:	No data available
:	Combustible
:	No data available
:	No data available
:	No data available
:	1.0-1.2
:	Non-water-soluble
:	No data available
:	No data available
:	No data available
:	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 Hazardous decomposition products	 Strong oxidizing agents, radical initiator, inert gas, oxygen scavenger. 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), 16969-10-1 (source: Registered substances (ECHA)), Confidential (source: NITE), Confidential (source: 1272/2008/EC) No data:Confidential
Acute toxicity (Dermal) Acute toxicity (Inhalation : Gases) Acute toxicity (Inhalation : Vapours) Acute toxicity (Inhalation : dust/mist) Skin corrosion/ Irritation	 Calculation result = 2032.8524617mg/kg. Classification result = Classification not possible. Unable to classify due to insufficient data. Does not fall under gas based on GHS definitions. Unable to classify due to insufficient data. Unable to classify due to insufficient data. 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
Serious eye damage/ irritation	 Sum of Category 2 Concentration limit = 10%. Classification result = Category 2. Category 1:2226-96-2 (source: Registered substances (ECHA)), 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 Skin Sensitization	 Unable to classify due to insufficient data. 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 >= 0.1% Classification result = Category 1

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Germ cell mutagenicity	:	Unable to classify due to insufficient data.
Carcinogenicity	:	Unable to classify due to insufficient data.
Reproductive toxicity	:	Unable to classify due to insufficient data.
Reproductive toxicity, effects on or via lactation	:	Unable to classify due to insufficient data.
Specific target organ toxicity - Single exposure	:	Unable to classify due to insufficient data.
Specific target organ toxicity – Repeated exposure	:	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
Aspiration hazard	:	Substances classified as hazardous are below the concentration limit. Contains substance of unknown toxicity. Changed from Not classified to Classification not possible. 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 -	- :	Category 2:16969-10-1 (source: Registered substances (ECHA))
Chronic Toxicity		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.



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13. DISPOSAL CONSIDERATIONS		
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

IMDG	
UN number :	3082
UN proper shipping name :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es) :	9
Packing group :	Ш
ΙΑΤΑ	
UN number :	3082
UN proper shipping name :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es) :	9
Packing group :	Ш
DOT	
UN number :	3082
UN proper shipping name :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es) :	9
Packing group :	Ш

15. REGULATORY INFORMATION

TSCA (Toxic Substances Control Act)	: Section 5(a)(2) – Chemicals with Significant New Use Rules (SNURs) (2–Propenoic acid, 2–[2–(ethenyloxy)ethoxy]ethyl ester)
California Proposition 65	: Not regulated under California Proposition 65

16. OTHER INFORMATION

National Fire Protection		
Association(U.S.A)		
Health	: 3	
Flammability	: 1	
Reactivity	: 0	
Specific hazard	: Not applicable	



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Literature References

Other data

 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
 The information suggested in this Safety Data Sheet does not

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.