

Safety Data Sheet

1. IDENTIFICATION

Product Identifier	: ELH-100 Black
Product code	: ELH100-K-BA / ELH100-K-B2 / ELH100-K-60 / ELH100-K-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)
	Take off contaminated clothing and wash it before



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	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	Mixtures		
Chemical name	Contents	CAS RN		
1,6-Hexanediol diacrylate	35-45%	13048-33-4		
Dipropylene Glycol Diacrylate	25-35%	57472-68-1		
Acrylate monomer	15-25%	Confidential		
Photo initiator	5-15%	Confidential		
Carbon black	0.1–5%	1333-86-4		
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 chemical 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.
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

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		contact with soil, waterways, drains and sewers.
Methods and materials for containment	:	Small spill : absorb with material such as non-combustible
and cleaning up		materialwash thoroughly after handling.
		Large spills: Dike spills and dispose of in safe area.
Prevention Measures for Secondary	:	Keep away from sources of ignition and prepare extinguishing media.
Accidents		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. Do not handle until all safety precautions have been read and Safe handling advice : 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

	ACGIH (TLV)	OSHA (PEL)	Workplace Safety And Health (General Provisions) Regulations
Carbon black	TWA 3 mg/m3(I),STEL -	3.5 mg/m3 TWA	3.5 mg/m3 PEL
Engineering measures Individual protection measur	: 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.		

Respiratory protection		If necessary, wear respiratory protection.
Hand protection	:	Wear protective gloves.
Eye protection	:	Wear eye protection/face protection.

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- 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	:	Black
Odor	:	Unique odor
Odor threshold	:	No data available
рН	:	No data available
Melting point	:	No data available
Boiling point	:	No data available
Flash point	:	>=130°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 ± 3 mPa·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:Confidential (converted value = 500mg/kg, source: Registered substances (ECHA)) Not classified:1333-86-4 (toxicity value = 8000mg/kg, source: NITE) Classification not possible:13048-33-4 (source: 1272/2008/EC), Confidential (source: NITE), 57472-68-1 (source: Registered substances (ECHA)), Confidential (source: 1272/2008/EC)

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No data:Confidential

Acute toxicity (Dermal) : Acute toxicity (Inhalation : Gases) : Acute toxicity (Inhalation : Vapours) : Acute toxicity (Inhalation : dust/mist) : Skin corrosion/ Irritation :	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. 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: Registered substances (ECHA)) Not classified:1333-86-4 (source: NITE) Classification not possible:Confidential (source: Registered substances (ECHA)), Confidential (source: NITE), Confidential (source: 1272/2008/EC) No data:Confidential
Serious eye damage/ irritation :	Sum of Category 2 Concentration limit = 10%. Classification result = Category 2. Category 1:Confidential (source: Registered substances (ECHA)), 57472-68-1 (source: Registered substances (ECHA)) Category 2:13048-33-4 (source: 1272/2008/EC) Not classified:1333-86-4 (source: NITE) Classification not possible:Confidential (source: NITE), Confidential (source: 1272/2008/EC) No data:Confidential
Respiratory Sensitization : Skin Sensitization :	Sum of Eye category 1 Concentration limit = 3%. Classification result = Category 1. Unable to classify due to insufficient data. Category 1:13048-33-4 (source: 1272/2008/EC), 57472-68-1 (source: Registered substances (ECHA)) Category 1A:Confidential (source: 1272/2008/EC) Classification not possible:1333-86-4 (source: NITE), Confidential (source: Registered substances (ECHA)), Confidential (source: NITE) No data:Confidential
Germ cell mutagenicity : Carcinogenicity :	13048-33-4 >= 1% Classification result = Category 1 Unable to classify due to insufficient data. Category 2:1333-86-4 (source: NITE) Classification not possible:Confidential (source: Registered substances (ECHA)), 13048-33-4 (source: 1272/2008/EC),

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	1333-86-4 >= 1% Classification result = Category 2.
Reproductive toxicity	Because the shape is liquid, Changed from Category 2 to Classification not possible. : Unable to classify due to insufficient data.
Reproductive toxicity, effects on or via	: 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 1:1333-86-4 (organ = respiratory apparatus, source: NITE) Category 2:Confidential (organ = spleen, liver, source: Registered substances (ECHA)) Classification not possible:13048-33-4 (source: 1272/2008/EC), Confidential (source: NITE), 57472-68-1 (source: Registered substances (ECHA)), Confidential (source: 1272/2008/EC) No data:Confidential
	1333-86-4 >= 1% Classification result = Category 2(respiratory apparatus)
	Because the shape is liquid, Changed from Category 2 to Classification not possible.
Aspiration hazard	: Unable to classify due to insufficient data.
12. ECOLOGICAL INFORMATION	
Hazardous to the Aquatic Environment –	 Not classified:1333-86-4 (source: NITE) Classification not possible:Confidential (source: Registered substances (ECHA)), 13048-33-4 (source: 1272/2008/EC), Confidential (source: NITE), 57472-68-1 (source: Registered substances (ECHA)), Confidential (source: 1272/2008/EC) No data:Confidential
Hazardous to the Aquatic Environment – Chronic Toxicity	 Contains substance of unknown toxicity. Changed from Not classified to Classification not possible. Category 4:Confidential (source: 1272/2008/EC) Classification not possible:1333-86-4 (source: NITE), Confidential (source: Registered substances (ECHA)), 13048-33-4 (source: 1272/2008/EC), Confidential (source: NITE), 57472-68-1 (source: 1272/2008/EC), Confidential (source: NITE), 57472-68-1 (source: 1272/2008/EC)

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	Registered substances (ECHA)) No data:Confidential
Hazardous to the Ozone layer	 (M factor x 100 x Category 1) + (10 x Category 2) + Category 3 >= Concentration limit(25%). Contains substance of unknown toxicity. Changed from Not classified to Classification not possible. : Unable to classify due to insufficient data.
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	
International regulations	

Sea(IMDG)	
UN number	: 3082
UN proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	: 9
Packing group	: 11
Air(IATA)	
UN number	: 3082
UN proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport hazard class(es)	: 9
Packing group	: 11

15. REGULATORY INFORMATION

Workplace Safety And Health

: Occupational Exposure Limits

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

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- : 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.