

Product Identifier: ELH-100 Black SDS No. 037-U328639

Date of issue: 2025/02/25
Date of revision: 2025/05/28

#### Section 1 - Identification

Product identifier : ELH-100 Black

Product code : ELH100-K-BA / ELH100-K-B2 / ELH100-K-60 / ELH100-K-22

Recommended use of the chemical and

restrictions on use

Details of manufacturer

: MIMAKI ENGINEERING CO., LTD.

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

: +81-268-64-2413

INK JET ink

Details of Importer / Distributor : MIMAKI AUSTRALIA PTY LTD.

Unit 14, 38-46 South Street, Rydalmere, NSW 2116, Australia

: +61-2-8036-4500

Emergency telephone number : +61 2 8014 4558 (within Australia only)

18000 74234 (within Australia only)

+65 3158 1074

### Section 2 - Hazard(s) Identification

Classification of the hazardous chemical

Health hazards : Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1

Sensitization - skin Category 1

Label elements, including precautionary

statements

Pictograms or Symbols



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 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)

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If skin irritation or rash occurs: Get medical

advice/attention(P333+P313)

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)

### Section 3 - Composition and Information on Ingredients

Substances or mixtures	: Mixtures	
Ingredients 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

### Section 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.

### Section 5 - Fire Fighting Measures

Suitable extinguishing equipment

Not suitable extinguishing media

Specific hazards arising from the

chemical

Special protective equipment and

precautions 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.

### Section 6 - Accidental Release Measures

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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.

### Section 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.

#### Section 8 - Exposure controls and personal protection

### Control parameters

	ACGIH (TLV)	OSHA (PEL)	Occupational Exposure Standards
Carbon black	TWA 3 mg/m3(I),STEL -	3.5 mg/m3 TWA	3 mg/m3 TWA

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 and face protection Wear eye protection/face protection.

Skin protection Wear protective clothing.

#### Section 9 - Physical and Chemical Properties

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Appearance

Liquid Physical state Color Black

Odor Unique odor

Odor threshold No data available Ha No data available Melting point/freezing point No data available

Initial boiling point and boiling ranget No data available

>=130°C Flash point

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

1.0 - 1.2Relative density

Solubility Non-water-soluble Partition coefficient: n-octanol/water No data available Auto-ignition temperature No data available : No data available Decomposition temperature  $23\pm3$ mPa $\cdot$ s(25°C) Viscosity

#### Section 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.

## Section 11 - Toxicological Information

Acute toxicity (Oral) : Category 4:Confidential (converted value = 500mg/kg, source:

Registered substances (ECHA))

Classification not possible:1333-86-4 (source: GHS Hazardous Chemical Information List), 13048-33-4 (source: GHS Hazardous Chemical Information List), Confidential (source: NITE), 57472-68-1 (source: Registered substances (ECHA)), Confidential (source: GHS

Hazardous Chemical Information List)

No data:Confidential



Acute toxicity (Dermal)

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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.

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: GHS Hazardous Chemical

Information List), 57472-68-1 (source: Registered substances

(ECHA))

Classification not possible:1333-86-4 (source: GHS Hazardous Chemical Information List), Confidential (source: Registered substances (ECHA)), Confidential (source: NITE), Confidential

(source: GHS Hazardous Chemical Information List)

No data:Confidential

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

Category 2.

Serious eye damage/irritation : Category 1:Confidential (source: Registered substances (ECHA)),

57472-68-1 (source: Registered substances (ECHA))
Category 2:13048-33-4 (source: GHS Hazardous Chemical

Information List)

Classification not possible:1333-86-4 (source: GHS Hazardous Chemical Information List). Confidential (source: NITE). Confidential

(source: GHS Hazardous Chemical Information List)

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: GHS Hazardous Chemical

Information List), 57472-68-1 (source: Registered substances

(ECHA)), Confidential (source: GHS Hazardous Chemical Information

List)

Classification not possible:1333-86-4 (source: GHS Hazardous Chemical Information List). Confidential (source: Registered

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

No data:Confidential

13048-33-4 >= 1% Classification result = Category 1

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



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Carcinogenicity : Unable to classify due to insufficient data. Unable to classify due to insufficient data. Reproductive toxicity Reproductive toxicity, effects on or via : Unable to classify due to insufficient data.

lactation

Specific target organ toxicity - Single

exposure

Specific target organ toxicity -

Repeated exposure

: Unable to classify due to insufficient data.

: Category 2:1333-86-4 (organ = ---, source: GHS Hazardous Chemical Information List), Confidential (organ = spleen, liver,

source: Registered substances (ECHA))

Classification not possible:13048-33-4 (source: GHS Hazardous Chemical Information List), Confidential (source: NITE), 57472-68-1 (source: Registered substances (ECHA)), Confidential (source: GHS

Hazardous Chemical Information List)

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.

Ingredients not contributing to classification:

1333-86-4 (category = Category 2, source: GHS Hazardous

Chemical Information List)

Unable to classify due to insufficient data. Aspiration hazard

#### Section 12 - Ecological Information

Hazardous to the Aquatic Environment - : Acute Toxicity

Classification not possible:1333-86-4 (source: GHS Hazardous Chemical Information List), Confidential (source: Registered

substances (ECHA)), 13048-33-4 (source: GHS Hazardous Chemical Information List), Confidential (source: NITE), 57472-68-1 (source:

Registered substances (ECHA)), Confidential (source: GHS

Hazardous Chemical Information List)

No data:Confidential

Contains substance of unknown toxicity. Changed from Not

classified to Classification not possible.

Hazardous to the Aquatic Environment - :

Chronic Toxicity

Category 4: Confidential (source: GHS Hazardous Chemical

Information List)

Classification not possible:1333-86-4 (source: GHS Hazardous Chemical Information List), Confidential (source: Registered

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No data:Confidential

(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.

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

Section 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.

Section 14 - Transport Information

International regulations

**IMDG** 

3082 UN number

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

Transport hazard class(es) 9 Ш Packing group

IATA

**UN** number 3082

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

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

**ADG** 

**UN** number 3082

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

Transport hazard class(es) 9  $\mathbf{III}$ Packing group

Section 15 - Regulatory Information

High Volume Industrial Chemicals List : Listed

Industrial Chemicals Act : List of Chemicals with High Hazards for Categorisation

Section 16 - Other information

SDS of raw material Literature References



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National Institute of Technology and Evaluation (NITE) GHS

Regulation (EC) 1272/2008 Annex VI

Classifications List

Regulation (EC) 1907/2006 registered substances

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.

Other data