

Product Identifier: ELH-100 Black

SDS No. 037-U328559 First issue: 2025/01/10 Revised: 2025/05/30

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 : 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 : 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.

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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)

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 number
1,6-Hexanediol diacrylate	35-45%	13048-33-4
Dipropylene Glycol Diacrylate	25-35%	57472-68-1
Acrylate monomer	15-25%	Confidential
Photo initiator	1-10%	Confidential
2,4-Diethylthioxanthen-9-one	1-10%	82799-44-8
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 extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the

chemical

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.

Special protective equipment and Use goggles in combination with dust mask, and another protections



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precautions for fire-fighters

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

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

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

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 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.

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Skin and body protection Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State : Liquid Color Black

Odor Unique odor

Odor threshold No data available No data available pΗ No data available Melting point Boiling point No data available

>=130°C Flash point

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

Specific Gravity (Density) 1.0 - 1.2

Solubility Non-water-soluble Partition coefficient: n-octanol/water No data available No data available Auto-ignition temperature 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



Skin Sensitization

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substances (ECHA)), Confidential (source: 1272/2008/EC), 82799-

44-8 (source: Registered substances (ECHA))

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.

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: 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), 82799-44-8 (source: Registered

substances (ECHA))
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: 1272/2008/EC)

Not classified:1333-86-4 (source: NITE)

Classification not possible: Confidential (source: NITE), Confidential

(source: 1272/2008/EC), 82799-44-8 (source: Registered

substances (ECHA)) No data:Confidential

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

= Category 1.

Respiratory Sensitization : 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), 82799-44-8 (source: Registered substances (ECHA))

No data:Confidential



Germ cell mutagenicity

Carcinogenicity

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13048-33-4 >= 0.1% 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), Confidential (source: NITE), 57472-68-1 (source: Registered substances (ECHA)), Confidential (source: 1272/2008/EC), 82799-

44-8 (source: Registered substances (ECHA))

No data:Confidential

 $1333-86-4 \ge 0.1\%$ Classification result = Category 2.

Because the shape is liquid, Changed from Category 2 to

Classification not possible.

Reproductive toxicity : 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 : Unable to classify due to insufficient data.

exposure

lactation

Specific target organ toxicity -

Repeated exposure

. Onable to classify due to insufficient data.

: 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), 82799-

44-8 (source: Registered substances (ECHA))

No data:Confidential

1333-86-4 >= 1% Classification result = Category 1(respiratory

apparatus)

Because the shape is liquid, Changed from Category 1 to

Classification not possible.

Aspiration hazard : Unable to classify due to insufficient data.

12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment - :

Acute Toxicity

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), 82799–

44-8 (source: Registered substances (ECHA))



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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: 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: Registered substances (ECHA)), 82799-44-8 (source: Registered

substances (ECHA)) 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.

Other

Do not Release to water.

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

3082 **UN** number

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

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

IATA

UN number 3082

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

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

DOT

UN number 3082

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



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Transport hazard class(es) : 9
Packing group : III

15. REGULATORY INFORMATION

U.S. - RTK (Right To Know) List : New Jersey - RTK (Right to Know) - Hazardous Substance List

Pennsylvania - RTK (Right to Know) List
 Massachusetts - RTK (Right To Know) List

: California - Cleaning Products RTK (Right to Know) - Substances in

Designated List

California - Menstrual Products Right to Know Act - Substances in

Designated Lists

California - Cosmetic Fragrance and Flavor Ingredient Right to Know

Act - Substances in Designated Lists

California - Safer Consumer Products
TSCA (Toxic Substances Control Act)

: Informational List of Candidate Chemicals and Chemical Groups

: Section 5(a)(2) - Chemicals with Significant New Use Rules (SNURs)

(2,4-Diethylthioxanthen-9-one)

California Proposition 65

WARNING



This product can expose you to chemicals including carbon black which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

16. OTHER INFORMATION

National Fire Protection

Association(U.S.A)

Health : 3
Flammability : 1
Reactivity : 0

Specific hazard : Not applicable

3 0

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.
