

Safety Data Sheet

1. IDENTIFICATION

Product identifier	: ELH-100 White
Product code	: ELH100-W-BA-2 / ELH100-W-B2-2 / ELH100-W-60-2 / ELH100-W-22-2
Ink Version	: 2
Recommended use of the chemical and restrictions on use	: INK JET ink
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 2
Sensitization – skin Category 1

GHS Label Elements

Symbols



Signal Word

: Warning

Hazard Statements

: H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation

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)

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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) If skin irritation or rash occurs: Get medical advice/attention (P333+P313) If eye irritation persists: Get medical advice/attention 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	30-40%	13048-33-4
Ethyl Phenyl(2,4,6-trimethylbenzoyl)phosphinate	5-15%	84434-11-7
Titanium dioxide	5-15%	13463-67-7
Acrylate monomer	5-15%	Confidential
Benzyl Acrylate	5-15%	2495-35-4
2-Propenoic acid, 2-[2-(ethenyloxy)ethoxy]ethyl ester	5-15%	86273-46-3
2,2-Bis(4-hydroxyphenyl)propane-epichlorohydrin copolymer acrylate	1-10%	55818-57-0
Photo initiator	1-10%	Confidential
Additive	0.1-5%	Confidential
4-hydroxy-2,2,6,6-tetramethylpiperidinoxyl	<1%	2226-96-2

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

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attention.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Dry chemicals, CO2, water spray or regular foam.
Unsuitable extinguishing media	: Cylindric water.
Specific hazards arising from the chemical	: Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.
Special protective equipment and precautions for fire-fighters	: 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	: 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

	ACGIH (TLV)	OSHA (PEL)
Titanium dioxide	TWA 10 mg/m ³ ,STEL -	15 mg/m ³ TWA (total dust)

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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.
Skin and body protection	: Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State	: Liquid
Color	: White
Odor	: Unique odor
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Boiling point	: No data available
Flash point	: 143°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
Specific Gravity (Density)	: 1.0-1.3
Solubility	: Non-water-soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: $22 \pm 3 \text{ mPa} \cdot \text{s}$ (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

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dioxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (Oral)	: Unable to classify due to insufficient data.
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.
Serious eye damage/ irritation	: Category 2.
Respiratory Sensitization	: Unable to classify due to insufficient data.
Skin Sensitization	: Category 1
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	: Unable to classify due to insufficient data.
Aspiration hazard	: Unable to classify due to insufficient data.

12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment – Acute Toxicity	: Unable to classify due to insufficient data.
Hazardous to the Aquatic Environment – Chronic Toxicity	: Unable to classify due to insufficient data.
Hazardous to the Ozone layer	: Unable to classify due to insufficient data.
Other	:

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.

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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 : III

IATA

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

DOT

UN number : 3082
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
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 – Safe Cosmetics Act of 2005 – SB 484
: California – Safe Cosmetics Program Product Database – Reportable Ingredient List
California – Safer Consumer Products : Informational List of Candidate Chemicals and Chemical Groups
TSCA (Toxic Substances Control Act) : Section 12(b) – Export Notification
: Section 8(a) – Chemical Data Reporting Rule – Low Reporting Threshold Substances
: Section 5(a)(2) – Chemicals with Significant New Use Rules (SNURs)
FIFRA (Federal Insecticide, Fungicide and Rodenticide Act) : Listing of Pesticide Chemicals (40 CFR 180)
OSHA (Occupational Safety and Health Administration) : Hazard Communication Carcinogens
California Proposition 65 : **WARNING**



This product can expose you to chemicals including titanium

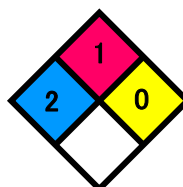
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dioxide which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

16. OTHER INFORMATION

National Fire Protection
Association(U.S.A)

Health	:	2
Flammability	:	1
Reactivity	:	0
Specific hazard	:	Not applicable



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.