

Product Name: MH-100 ink Magenta

SDS No. 037-U144057 First issue: 2018/06/27 Revised: 2024/03/22

1. IDENTIFICATION

Product Identifier MH-100 ink Magenta

Product Description MH100-M-BA

Recommended use and restriction use UV curable 3D model 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 Information MIMAKI SINGAPORE PTE. LTD.

31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03

+65-6508-2789

Emergency telephone number +65 3165 2217 (within Singapore only)

+65 3158 1074

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Health hazards Acute toxicity - oral Category 4

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1

Sensitization - skin Category 1 Reproductive toxicity Category 2

Specific target organ toxicity (single exposure) Category 3 (respiratory

tract irritation)

Specific target organ toxicity (repeated exposure) Category 2 Hazard to the aquatic environment (long-term hazard) Category 2

Environmental Hazards
GHS LABEL ELEMENTS

Pictograms



Signal Word Danger

Hazard Statements H302 Harmful if swallowed

H315 Causes skin irritation

H318 Causes serious eye damage

H317 May cause an allergic skin reaction

H361 Suspected of damaging fertility or the unborn child (state specific

effect if known)

H335 May cause respiratory irritation

H373 May cause damage to organs through prolonged or repeated

exposure

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

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Prevention Obtain special instructions before use(P201)

Do not handle until all safety precautions have been read and

understood(P202)

Do not breathe mist, vapours and spray.(P260)

Wash thoroughly after handling.(P264)

Do not eat, drink or smoke when using this product(P270) Use only outdoors or in a well-ventilated area(P271)

Contaminated work clothing should not be allowed out of the

workplace.(P272)

Avoid release to the environment(P273)

Wear protective gloves.(P280)

Wear eye protection and face protection.(P280)

IF ON SKIN: Wash with plenty of soap and water(P302+P352) Response

IF INHALED: Remove to fresh air and keep at rest in a position

comfortable for breathing.(P304+P340)

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 exposed or concerned: Get medical advice/attention(P308+P313)

Immediately call a POISON CENTER/doctor(P310)

Call a POISON CENTER/doctor. If you feel unwell.(P312)

Specific treatment.(P321)

Rinse mouth(P330)

If skin irritation or rash occurs: Get medical

advice/attention(P333+P313)

Take off contaminated clothing and wash it before reuse. (P362+P364)

Collect spillage(P391)

Store in a well-ventilated place. Keep container tightly Storage

closed.(P403+P233)

Store locked up(P405)

Disposal Dispose of contents/ container to an approved landfill.(P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

ubstances or mixtures Mixtures								
Chemical name	Contents	Chemical Formula	CAS RN					
Tripropylene glycol diacrylate	25-35%	Unknown	42978-66-5					
Acrylic monomer	20-25%	Unknown	Confidential					
Morpholine, 4-(1-oxo-2-propenyl)-	15-25%	Unknown	5117-12-4					
Oligomer	15-25%	Unknown	Confidential					
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	1-10%	Unknown	75980-60-8					

4. FIRST-AID MEASURES

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In case of inhalation	Call a POISON CENTER or doctor / physician if you feel unwell.
	IF exposed or concerned: Get medical advice and attention.
In case of skin contact	IF ON SKIN: Wash with plenty of soap and water.
	Take of contaminated clothing and wash before re-use.
	If skin irritation or rash occurs, get medical advice and attention.
	IF exposed or concerned: Get medical advice and attention.
	Specific treatment.
In case of eye contact	Immediately call a POISON CENTRE or doctor/physician.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	IF exposed or concerned: Get medical advice and attention.
In case of ingestion	IF SWALLOWED: Immediately call a POISON CENTER or
	doctor/physician.
	Rinse mouth.
	IF exposed or concerned: Get medical advice and attention.

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Suitable fire-extinguishing media	Dry chemical, alcohol-resistant foam, CO2, sand, water spray.
Not suitable extinguishing media	Cylindric water.
Specific hazards arising from the	Risk of producing harmful gases such as carbon monoxide and sulfur
chemical	oxides. Avoid inhalation of smoke or gases
Special protective actions for fire	Use goggles in combination with dust mask, and another protections as
fighters	appropriate to situation.

Induce vomiting.

6. ACCIDENTAL RELEASE MEASURES

b.	. ACCIDENTAL RELEASE MEASURES	
	Personal precautions, protective	Use goggles in combination with dust mask, and another protections as
	equipment and emergency procedures	appropriate to situation.
		Large spills :Evacuate area.
		Ensure adequate ventilation.
	Environmental precautions	Do not discharge into the drains, surface waters or ground water
		directly.
	Methods and materials for containment	small spill : absorb with material such as non-combustible materialwash
	and cleaning up	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.

7. HANDLING AND STORAGE

Handling

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Do not recklessly walk on the spillage.



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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 eat, drink or smoke when using this product. Safe handling advice

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.

Storage

Suitable storage conditions Store locked up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Use local exhaust ventilation in case of production of fume or mist. Engineering measures

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

electrocity.

No data available

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

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Physical State Liquid Color magenta Odor unique odor Odor threshold No data available

Melting point No data available Boiling point No data available 93°C or more Flash point Evaporation rate No data available Flammability(Solid, Gas) No data available Flammability or explosive limits No data available Vapor pressure No data available No data available Vapor density

1.07(25°C) Relative density

No data available Solubility(ies) Partition coefficient: n-octanol/water No data available

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Auto-ignition temperature No data available No data available Decomposition temperature 68 ± 3 mPa·s(25°C) Viscosity

10. STABILITY AND REACTIVITY

Reactivity No reactivity hazard is expected.

Chemical stability Stable under normal conditions of use.

Possibility of hazardous reactions Will not polymerize.

Conditions to avoid Avoid flames, sparks, and other sources of ignition.

Avoid contact with incompatible materials.

Incompatible materials acids, bases, metals, oxidizing materials, metal oxides

Hazardous decomposition products oxides of carbon, oxides of nitrogen

11. TOXICOLOGICAL INFORMATION

Acute toxicity (Oral) Category 4:5117-12-4 (converted value = 500mg/kg, source:

1272/2008/EC)

Not classified:42978-66-5 (source: NITE) Not applicable:75980-60-8 (source: NITE) No data:Confidential (source: None)

Calculation result = 1250mg/kg. Classification result = Category 4.

Acute toxicity (Dermal) Not classified:42978-66-5 (source: NITE)

Not applicable:75980-60-8 (source: NITE), 5117-12-4 (source: NITE)

No data:Confidential (source: None)

Contains substance of unknown toxicity. Changed from Not classified to

Classification not possible.

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)

Skin corrosion/ Irritation

Unable to classify due to insufficient data.

Category 2:42978-66-5 (source: 1272/2008/EC)

Not applicable:75980-60-8 (source: NITE), 5117-12-4 (source: NITE)

No data:Confidential (source: None)

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

Category 2.

Category 1:5117-12-4 (source: 1272/2008/EC) Serious eye damage/irritation

Category 2:42978-66-5 (source: 1272/2008/EC)

Not applicable:75980-60-8 (source: NITE)

No data:Confidential (source: None)

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

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Category 1.

Respiratory Sensitization Unable to classify due to insufficient data.

Skin Sensitization Category 1:5117-12-4 (source: 1272/2008/EC), 42978-66-5 (source:

1272/2008/EC)

Not applicable:75980-60-8 (source: NITE)

No data:Confidential (source: None)

42978-66-5 >= 1% Classification result = Category 1

Germ cell mutagenicity

Unable to classify due to insufficient data.

Unable to classify due to insufficient data.

Reproductive toxicity Category 2:75980-60-8 (source: 1272/2008/EC)

Not applicable:5117-12-4 (source: NITE)

No data:Confidential (source: None), 42978-66-5 (source: None)

75980-60-8 >= 3% Classification result = Category 2

Reproductive toxicity, effects on or via

lactation

effects on or via Unable to classify due to insufficient data.

Specific target organ Toxicity - Single

Exposure

Category 3:42978-66-5 (organ = respiratory tract irritation, source:

1272/2008/EC)

Not applicable:75980-60-8 (source: NITE), 5117-12-4 (source: NITE)

No data:Confidential (source: None)

Sum of Category 3(respiratory tract irritation) Concentration limit = 20%.

Classification result = Category 3(respiratory tract irritation). Category 2:5117-12-4 (organ = ---, source: 1272/2008/EC)

Specific target organ toxicity -

Repeated Exposure

Not applicable:75980-60-8 (source: NITE)

No data:Confidential (source: None), 42978-66-5 (source: None)

5117-12-4 >= 10% Classification result = Category 2

Aspiration hazard Unable to classify due to insufficient data.

12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment

Category 2:42978-66-5 (source: NITE)

- Acute Toxicty

Not applicable:75980-60-8 (source: NITE), 5117-12-4 (source: NITE)

No data:Confidential (source: None)

(M factor x 10 x Category 1) + Category 2 >= Concentration limit(25%).

Classification result = Category 2.

(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 Aquatic Environment

Category 2:42978-66-5 (source: 1272/2008/EC)

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- Chronic Toxicity Not applicable:75980-60-8 (source: NITE), 5117-12-4 (source: NITE)

No data:Confidential (source: None)

(M factor x 10 x Category 1) + Category 2 >= Concentration limit(25%).

Classification result = Category 2.

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

13. DISPOSAL CONSIDERATIONS

Residual Waste Before disposal, make the wastes harmless, stabilized, and neutralized,

and minimize danger and toxicity of the wastes.

Dispose of waste in accordance with local, state and federal regulations.

Contaminated Container and

Packaging

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 III

Special Provision 2.10.2.7 *1

air(IATA)

UN number 3082

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

Transport hazard class(es) 9
Packing group III

Special Provision A197 *1

*1 Single or inner packaging less than 5 L (liquid) or 5 kg net (solids) is excepted from Dangerous Goods regulations — see UN Special Provision.

15. REGULATORY INFORMATION

No main

regulation

Component Analysis - Inventory

Tripropylene glycol diacrylate (42978-66-5)

TSCA	ENCS	KECI					EINECS	TCSI	NZIoC
-	- ENUS	KEOI	IECSC -	DSL -	PICCS -	AICS -	-	-	_
United	Japan	Korea	China	Canada	Philippines	Australia	European	Taiwan	New
States	Japan	Norea					Union	Taiwaii	Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Morph	Morpholine, 4-(1-oxo-2-propenyl)- (5117-12-4)								
TSCA	ENCS	KECI	IECSC -	NDSL -	PICCS -	AICS -	ELINCS	TCSI	NZIoC



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_	-	-	China	Canada	Philippines	Australia	-	_	_
United	Japan	Korea					European	Taiwan	New
States							Union		Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide (75980-60-8)

TSCA	ENCS	KECI					EINECS	TCSI	NZIoC
-	- ENUS	KEGI	IECSC -	DSL -	PICCS -	AICS -	-	-	_
United			China	Canada	Philippines	Australia	European		New
States	Japan	Korea					Union	Laiwan	Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

16. OTHER INFORMATION

Literature References

NITE GHS

EU CLP Regulation, AnnexVI

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.

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