

Product Name: MH-100 ink Clear

SDS No. 037-U144060 First issue: 2018/06/27 Revised: 2024/03/22

1. IDENTIFICATION

Product Identifier MH-100 ink Clear

Product Description MH100-CL-BD / MH100-CL-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 Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Sensitization – skin Category 1 Reproductive toxicity Category 2

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

Hazard to the aquatic environment (long-term hazard) Category 2

tract irritation)

Environmental Hazards
GHS LABEL ELEMENTS

Pictograms



Signal Word Warning

Hazard Statements H315 Causes skin irritation

H319 Causes serious eye irritation 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

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention Obtain special instructions before use(P201)

Do not handle until all safety precautions have been read and

understood(P202)

Avoid breathing mist, vapours and spray.(P261)

Wash thoroughly after handling.(P264)

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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)

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

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)

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

Specific treatment.(P321)

If skin irritation or rash occurs: Get medical

advice/attention(P333+P313)

If eye irritation persists: Get medical advice/attention(P337+P313)

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

Collect spillage(P391)

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

closed.(P403+P233) Store locked up(P405)

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances or mixtures Mixture	S		
Chemical name	Contents	Chemical Formula	CAS RN
Acrylic monomer	35-45%	Unknown	Confidential
Tripropylene glycol diacrylate	25-35%	Unknown	42978-66-5
Oligomer	20-30%	Unknown	Confidential
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	e 1-10%	Unknown	75980-60-8

4. FIRST-AID MEASURES

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 IF IN EYES: Rinse cautiously with water for several minutes. Remove

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In case of ingestion

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contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice and attention.

Rinse mouth.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you

feel unwell.

IF exposed or concerned: Get medical advice and attention.

Induce vomiting.

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 chemical, alcohol-resistant foam, CO2, sand, water spray.

Cylindric water.

Risk of producing harmful gases such as carbon monoxide and sulfur

oxides. 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

Use goggles in combination with dust mask, and another protections as

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

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.

Prevention Measures for Secondary

Accidents

Keep away from sources of ignition and prepare extinguishing media.

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.

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.

Avoid breathing dust/fume/gas/mist/vapours/spray.

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Storage

Suitable storage conditions Store locked up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

electrocity.

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 clear to light yellow

Odor unique odor

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

Relative density 1.07(25°C)

Solubility(ies)

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

Decomposition temperature

Viscosity

No data available
No data available
S8±3mPa•s(25°C)

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.



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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

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

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

No data:Confidential (source: None)

Contains substance of unknown toxicity. Changed from Not classified

to Classification not possible.

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

Not applicable:75980-60-8 (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) Acute toxicity (Inhalation : dust/mist)

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

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

Unable to classify due to insufficient data.

Unable to classify due to insufficient data.

No data:Confidential (source: None)

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

Category 2.

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 2 Concentration limit = 10%. Classification result =

Category 2A.

Respiratory Sensitization Unable to classify due to insufficient data.

Skin Sensitization Category 1:42978-66-5 (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. Carcinogenicity

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

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

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

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

lactation

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) No data:Confidential (source: None)

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

Specific target organ toxicity -

Repeated Exposure

Aspiration hazard

Unable to classify due to insufficient data.

Unable to classify due to insufficient data.

12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment

Acute Toxicty

Category 2:42978-66-5 (source: NITE) Not applicable:75980-60-8 (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

- Chronic Toxicity

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

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

No data:Confidential (source: None)

(M factor x 10 x Category 1) + Category 2 \geq 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



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

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

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