

Product Name: MH-100 ink Clear

SDS No. 037-U144053 First issue: 2018/06/27 Revised: 2020/12/01

Section 1 - Identification

Product identifier MH-100 ink Clear

Product code MH100-CL-BD / MH100-CL-BA

Recommended use of the chemical

Details of manufacturer or importer

and restrictions on use

UV curable 3D model ink

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Importer / Distributor Information MIMAKI AUSTRALIA PTY LTD.

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Section 2 - Hazard(s) Identification

Classification of the hazardous

chemical

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 tract

irritation)

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

Label elements, including precautionary statements

Pictograms or Symbols



Signal Word

Hazard Statements

Warning

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

H401 Toxic to aquatic life

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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)

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)

Use personal protective equipment as required.(P281)

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)

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)

Section 3 - Composition and Information on Ingredients

Substances or mixture Mixtures			
Ingredients 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	1-10%	Unknown	75980-60-8

Section 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.



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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

> 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.

In case of ingestion Rinse mouth.

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

IF exposed or concerned: Get medical advice and attention.

Induce vomiting.

Cylindric water.

Section 5 - Fire Fighting Measures

Suitable extinguishing equipment

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

Not suitable extinguishing media

Specific hazards arising from the

chemical

Risk of producing harmful gases such as carbon monoxide and sulfur oxides.

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.

Section 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

Methods and materials for

containment and cleaning up

Do not discharge into the drains, surface waters or ground water directly. 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 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.

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

Storage

Suitable storage conditions Store locked up.

Section 8 - Exposure controls and personal protection

Control parameters No data available

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

electrocity.

Individual protection measures, for

example personal protective

equipment (PPE)

Eye and face protection Wear eye protection/face protection.

Skin protection Wear protective clothing. Hand protection Wear protective gloves.

Respiratory protection If necessary, wear respiratory protection.

Section 9 - Physical and Chemical Properties

Appearance

Physical state Liquid

Color clear to light yellow

Odor unique odor

Odor threshold No data available No data available Hg Melting point/freezing point No data available Initial boiling point and boiling No data available

ranget

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 Relative density 1.07(25°C)

Solubility No data available Partition coefficient: n-No data available

octanol/water

No data available Auto-ignition temperature No data available Decomposition temperature Viscosity 58 ± 3 mPa \cdot s(25°C)

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Section 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

oxides of carbon, oxides of nitrogen Hazardous decomposition products

Section 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.

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

> 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)

Unable to classify due to insufficient data. Unable to classify due to insufficient data.

Acute toxicity (Inhalation:

dust/mist)

Category 2:42978-66-5 (source: GHS Hazardous Chemical Information List) Skin corrosion/ Irritation

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

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: GHS Hazardous Chemical Information List)

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: GHS Hazardous Chemical Information List)

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

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No data:Confidential (source: None)

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

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Unable to classify due to insufficient data. Unable to classify due to insufficient data.

Category 2:75980-60-8 (source: GHS Hazardous Chemical Information List)

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

Specific target organ toxicity -

Single exposure

Unable to classify due to insufficient data.

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

Hazardous Chemical Information List)
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.

Section 12 - Ecological Information

Hazardous to the Aquatic Category 2:42978-66-5 (source: NITE)
Environment - Acute Toxicty 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.

Hazardous to the Aquatic

Category 2:42978-66-5 (source: GHS Hazardous Chemical Information List)

Environment - Chronic Toxicity 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.

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

Section 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 Passed to a licensed waste contractor.

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packaging

In case of disposal of empty containers, remove the content thoroughly.

Section 14 - Transport Information

International regulations

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

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

ADG

UN number 3082

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

Transport hazard class(es) 9
Packing group III

*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.

Section 15 - Regulatory Information

High Volume Industrial Chemicals

High Volume Industrial Chemicals List

List

Component Analysis - Inventory

Tripropylene glycol diacrylate (42978-66-5)

	, ,								
TSCA	ENCS						EINECS		NZIoC
-	- ENGS	KECI -	IECSC -	DSL -	PICCS -	AICS -	_	TCSI -	_
United	١.	Korea	China	Canada	Philippines	Australia	European	Taiwan	New
States	Japan						Union		Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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

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

Section 16 - Other information

Literature References NITE GHS

EU CLP Regulation, AnnexVI

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Other data

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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.