

Product Name: SW-100 ink SDS No. 037-U144061 First issue: 2018/06/27 Revised: 2024/03/22

1. IDENTIFICATION

1.	DENTIFICATION	
	Product Identifier	SW-100 ink
	Product Description	SW100-Z-BD / SW100-Z-BA
	Recommended use and restriction use	UV curable 3D model support 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
	Serious eye damage/eye irritation Category 1
	Sensitization – skin Category 1
	Reproductive toxicity Category 2
	Specific target organ toxicity (repeated exposure) Category 2
Environmental Hazards	Hazard to the aquatic environment (acute hazard) Category 2
	Hazard to the aquatic environment (long-term hazard) Category 2
GHS LABEL ELEMENTS	
Pictograms	
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Signal Word	Danger
Hazard Statements	H302 Harmful if swallowed
	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)
	H373 May cause damage to organs through prolonged or repeated
	exposure
	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)
	Do not breathe mist, vapours and spray.(P260)



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Response	Wash thoroughly after handling.(P264) Do not eat, drink or smoke when using this product(P270) 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 SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell(P301+P312)
	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 exposed or concerned: Get medical advice/attention(P308+P313) Immediately call a POISON CENTER/doctor(P310)
	Get medical advice/attention if you feel unwell(P314)
	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)
Storage	Store locked up(P405)
Disposal	Dispose of contents/ container to an approved landfill.(P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances or mixtures Mixtur	res		
Chemical name	Contents	Chemical Formula	CAS RN
Water-soluble resin	50-60%	Unknown	Confidential
Morpholine, 4–(1–oxo–2–propenyl)–	30-40%	Unknown	5117-12-4
Diphenyl-2,4,6-trimethylbenzoyl phosphine o	xide 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	Immediately call a POISON CENTRE or doctor/physician.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove



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	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.
	Induce vomiting.

5. FIRE-FIGHTING MEASURES

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.

6. ACCIDENTAL RELEASE MEASURES

Use goggles in combination with dust mask, and another protections as
appropriate to situation.
Large spills :Evacuate area.
Ensure adequate ventilation.
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.
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.

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 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.



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
рН	No data available
Melting point	No data available
Boiling point	No data available
Flash point	93°C or more
Evaporation rate	No data available
Flammability(Solid,Gas)	No data available
Flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	1.07(25°C)
Solubility(ies)	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	66 ± 5 mPa•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.
	Avoid contact with incompatible materials.



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Incompatible materials Hazardous decomposition products	oxidizing materials, strong acids, strong bases 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 applicable:75980-60-8 (source: NITE)							
	No data:Confidential (source: None)							
Acute toxicity (Dermal)	Calculation result = 579.787234mg/kg. Classification result = Category 4. 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)	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.							
Skin corrosion/ Irritation	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.							
Serious eye damage/ irritation	Category 1:5117-12-4 (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 = Category 1.							
Respiratory Sensitization	Unable to classify due to insufficient data.							
Skin Sensitization	Category 1:5117-12-4 (source: 1272/2008/EC)							
	Not applicable:75980-60-8 (source: NITE)							
	No data:Confidential (source: None)							
	5117–12–4 >= 1% Classification result = Category 1							
Germ cell mutagenicity	Unable to classify due to insufficient data.							
Carcinogenicity	Unable to classify due to insufficient data.							
Reproductive toxicity	Category 2:75980-60-8 (source: 1272/2008/EC)							

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	Not applicable:5117-12-4 (source: NITE)				
	No data:Confidential (source: None)				
Reproductive toxicity, effects on or via lactation	75980-60-8 >= 3% Classification result = Category 2 Unable to classify due to insufficient data.				
Specific target organ Toxicity - Single Exposure	Not applicable:75980-60-8 (source: NITE), 5117-12-4 (source: NITE) No data:Confidential (source: None)				
Specific target organ toxicity – Repeated Exposure	Contains substance of unknown toxicity. Changed from Not classified to Classification not possible. Category 2:5117-12-4 (organ =, source: 1272/2008/EC) Not applicable:75980-60-8 (source: NITE) No data:Confidential (source: None)				
Aspiration hazard	5117-12-4 >= 10% Classification result = Category 2 Unable to classify due to insufficient data.				
12. ECOLOGICAL INFORMATION					
Hazardous to the Aquatic Environment	Classification result = Category 2.				
 Acute Toxicty 					
Hazardous to the Aquatic Environment - Chronic Toxicity	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	Passed to a licensed waste contractor.				
Packaging					
	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	Ш				
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	Ш
Special Provision	A197 *1
*1 Single or inner packaging less than 5	L (liquid) or 5 kg net (solids) is excepted from Dangerous Goods

regulatio	ns se	ee UN S	Special Provis	sion.					
15. REG	JLATOR	Y INFO	RMATION						
-	tion onent An	•	· Inventory ·2-propenyl)-	· (5117-12-4)					
TSCA - United State s	ENCS – Japan	KECI – Korea	IECSC - China	NDSL - Canada	PICCS – Philippines	AICS - Australia	ELINCS – European Union	TCSI - Taiwan	NZIoC – New Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dipher	1yl−2,4,6-	-trimeth	ıylbenzoyl ph	osphine oxide (75980-60-	-8)				
TSCA - United State s	ENCS – Japan	KECI – Korea	IECSC – China	DSL - Canada	PICCS – Philippines	AICS - Australia	EINECS – European Union	TCSI – Taiwan	NZIoC – New Zealand

16. OTHER INFORMATION

Yes

Yes

Yes

Literature References

Other data

Yes

NITE GHS

Yes

EU CLP Regulation, AnnexVI

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.

Yes

Yes

Yes

Yes

Yes