

## Safety Data Sheet

1. IDENTIFICATION	
Product Identifier	PHT50 White
Product code	PHT50-W-50
Recommended use and restriction use	e Inkjet printing ink
Manufacturer	MIMAKI ENGINEERING CO., LTD.
	2182–3 Shigeno-otsu, Tomi-shi, Nagano 389–0512 JAPAN
	+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	
Physical Hazards	
Flammable liquids	Not classified
GHS LABEL ELEMENTS	
Pictograms	None
Signal Word	None
Hazard Statements	None
Precautionary Statements	
Prevention	None
Response	None
Storage	None
Disposal	None

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances or mixtures	Mixtures		
Chemical name	Contents	Chemical Formula	CAS RN
Water	60-70%	H2O	7732-18-5
Diethylene Glycol	10-20%	C4H10O3	111-46-6
Glycerol	1-10%	C3H8O3	56-81-5
Polyurethane resin	1-10%	Unknown	Confidential
Titanium dioxide	1-10%	Unknown	13463-67-7

advice/attention.

### 4. FIRST-AID MEASURES

In case of inhalation Move victim into fresh air. If breathing is difficult, give oxygen and consult a physician immediately. Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs: Get medical

In case of skin contact

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In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and
	consult a physician if feel uncomfortable.
In case of ingestion	Never give anything by mouth to an unconscious person. Call a
	physician or Poison Control Center immediately.

5. FIRE-FIGHTING MEASURES	
Suitable fire-extinguishing media	Use extinguishing media suitable for surrounding area.
Not suitable extinguishing media	There is no restriction on the type of extinguisher which may be used.
Specific hazards arising from the chemical	Development of hazardous combustion gases or vapor possible in the event of fire.
Special protective actions for fire fighters	As in any fire, wear self-contained breathing apparatus and full protective gear. Fight fire from a safe distance, with adequate cover.
	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective	Use personal protective equipment, do not breathe
equipment and emergency procedures	gas/mist/vapour/spray.
	Ensure adequate ventilation. Remove all sources of ignition. Take
	precautionary measures against static discharges.
	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
	Discharge into the environment must be avoided.
Methods and materials for containment	Cut off the source of the leak as much as possible.
and cleaning up	Keep leaks in a ventilated place.
	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
	Remove all sources of ignition. Use spark-proof tools and explosion- proof equipment.
	Contain spillage, and then collect with an electrically protected vacuum
	cleaner or by wet-brushing and place in container.
7. HANDLING AND STORAGE	
Handling	
Technical measures	Use local exhaust ventilation in case of production of fume or mist.

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	Handling is performed in a well ventilated place.
	Avoid contact with eyes.



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### Storage

Suitable storage conditions

Keep away from heat/sparks/open flames/ hot surfaces.

Keep containers tightly closed. Keep containers in a dry, cool and well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. Store away from incompatible materials and foodstuff containers.

0. EXPOSURE CONTROLS / PERSONAL P	ROTECTION	
Chemical Name	ACGIH (TLV)	Singapore
Glycerol (56-81-5)	Not established	10 mg/m3 PEL (mist)
Diethylene Glycol (111–46–6)	Not established	Not established
Titanium dioxide (13463-67-7)	10mg/m3 TWA	10 mg/m3 PEL
Engineering measures	Ensure adequate ventilation, especially in confined areas.	
	Ensure that eyewash stations and s	afety showers are close to the
	workstation location.	
	Set up emergency exit and necessary risk-elimination area.	
	Handle in accordance with good industrial hygiene and safety practice.	
Individual protection measures		
Respiratory protection	Consult with a health and safety professional for specific respirators appropriate for your use.	
Hand protection	Wear appropriate chemical resistant gloves.	
Eye protection	Wear coverall, chemical goggles and face shield when handling.	
Skin and body protection	To prevent any contact, wear imper	
	apron, boots, or whole body suits m	

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appearance	
Physical State	Liquid
Color	White
Odor	No information available
Odor threshold	No information available
рН	7–9
Melting point	No information available
Boiling point	No information available
Flash point	Not flammable
Evaporation rate	No information available
Flammability(Solid,Gas)	Not flammable
Flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Solubility(ies)	No information available



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Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	3−5mPa•s
10. STABILITY AND REACTIVITY	

Stable under proper operation and storage conditions.
Incompatible materials, heat, flame and spark.
Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. Oxidants, alkali metals, alkaline earth metals and aluminum.
Contact with incompatible substances can cause decomposition or other chemical reactions. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. In contact with oxidants causes severe reactions, and may cause a fire or explosion. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Acute toxicity (Oral)	Glycerol (56-81-5)
	LD <sub>50</sub> Rat 12,600 mg/kg
Acute toxicity (Dermal)	Glycerol (56-81-5)
	LD <sub>50</sub> Rabbit >10,000 mg/kg
Acute toxicity (Inhalation : Gases)	Based on available data, the classification criteria are not met
Acute toxicity (Inhalation : Vapours)	Based on available data, the classification criteria are not met
Acute toxicity (Inhalation : dust/mist)	Based on available data, the classification criteria are not met
Skin corrosion/ Irritation	Based on available data, the classification criteria are not met
Serious eye damage/ irritation	Based on available data, the classification criteria are not met
Respiratory Sensitization	Based on available data, the classification criteria are not met
Skin Sensitization	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
Reproductive toxicity, effects on or via	Based on available data, the classification criteria are not met
lactation	
Specific target organ Toxicity - Single	Based on available data, the classification criteria are not met
Exposure	
Specific target organ toxicity -	Based on available data, the classification criteria are not met
Repeated Exposure	
Aspiration hazard	Based on available data, the classification criteria are not met



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#### 12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment -	Glycerol (56-81-5)
Acute Toxicity	LC <sub>50</sub> Fish 885mg/L(96h)
Hazardous to the Aquatic Environment -	No information available.
Chronic Toxicity	
Hazardous to the Ozone layer	No information available.
13. DISPOSAL CONSIDERATIONS	
Residual Waste	Dispose of waste in accordance with local,state and federal regulations.
	Recommend the use of incineration disposal.
Contaminated Container and Packaging	Containers may still present chemical hazard when empty. Keep away
	from hot and ignition source of fire.
14. TRANSPORT INFORMATION	
International regulations	

IMDG	Not regulated as dangerous goods for transport.
ΙΑΤΑ	Not regulated as dangerous goods for transport.
ADR	Not regulated as dangerous goods for transport.

#### **15. REGULATORY INFORMATION**

No main regulation

Component Analysis - Inventory

Yes

Yes

Glycerol (56-81-5)

TSCA – United States	ENCS - Japan	IECSC - China	DSL - Canada	PICCS – Philippines	AIICS – Australia	EINECS/ELIN CS – European Union	NZIoC – New Zealand		
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Titanium dioxide (13463-67-7)									
TSCA – United States	ENCS - Japan	IECSC - China	DSL - Canada	PICCS – Philippines	AIICS – Australia	EINECS/ELIN CS - European Union	NZIoC – New Zealand		

Yes

#### **16. OTHER INFORMATION**

Literature References

Other data

Yes

1) SDS of raw material

Yes

2) IPCS: The International Chemical Safety Cards (ICSC) 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