

1. Identification

Product Name	PHT50 White	
Order No.	: PHT50-W-50	
General Use	: Inkjet printing ink	
Product Description	: Water based pigment ink	
SDS Number	: 037-W557292	
Manufacture		
Company Name	: Mimaki Engineering Co., Ltd.	
Address	2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN	
Telephone No.	: +81-268-64-2413	
Importer / Distributor Established in USA		
Company Name	: MIMAKI USA, INC.	
Address	: 150 Satellite Boulevard NE , suite A, Suwanee, Georgia 30024,	
	U.S.A.	
Telephone No.	: +1-678-730-0170	
Emergency Telephone	: +1 866 928 0789 (within United States only, Toll free)	
No.	$+1\ 215\ 207\ 0061$	

2. Hazards Identification

[HCS Classification]	
Physical Hazards	
Flammable Liquids	: Not classified
Health Hazards	
Not classified	
Environmental Hazards	
Not classified	
The above list does not include category	being non-classifiable or not-applicable.
[HCS Label Elements]	
Symbol	
None	
Signal Word	
None	

Hazard Statements



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None

Precautionary Statements [Prevention] None [Response] None [Storage] None [Disposal] None

3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Water	60-70	7732-18-5
2	Diethylene Glycol	10-20	111-46-6
3	Glycerol	1-10	56-81-5
	Polyurethane resin	1-10	Trade Secret
4	Titanium dioxide	1-10	13463-67-7

4. First Aid Measures

Inhalation	: Move victim into fresh air. If breathing is difficult, give oxygen and	
	consult a physician immediately.	
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and	
	consult a physician if feel uncomfortable.	
Skin Contact	: Wash with plenty of soap and water. Take off contaminated clothing	
	and wash before re-use. If skin irritation or rash occurs: Get medical	
	advice/attention.	
Ingestion	: Never give anything by mouth to an unconscious person. Call a	
	physician or Poison Control Center immediately.	
Most Important Symptoms/Effects		
Acute	: Based on available data, the classification criteria are not met.	
Delayed	: Based on available data, the classification criteria are not met.	
Indication of Immediate	: Treat symptomatically. Symptoms may be delayed.	
Medical Attention and		

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Special Treatment Needed, If Needed

5. Fire Fighting Measures

Flammable Properties	: Flash point Not flammable
Extinguishing Media	[:] Use extinguishing media suitable for surrounding area.
Unsuitable Extinguishing	: There is no restriction on the type of extinguisher which may be
Media	used.
Special Hazards Arising	: Development of hazardous combustion gases or vapor possible in the
from the Chemical	event of fire.
Special Protective	: As in any fire, wear self-contained breathing apparatus
Equipment and	(MSHA/NIOSH approved or equivalent) and full protective gear.
Precautions for	Fight fire from a safe distance, with adequate cover.
Firefighters	Prevent fire extinguishing water from contaminating surface water
	or the ground water system.

6. Accidental Release Measures

Personal Precautions,	: Use personal protective equipment, do not breathe
Protective Equipment	gas/mist/vapour/spray.
and Emergency	Ensure adequate ventilation. Remove all sources of ignition. Take
Procedures	precautionary measures against static discharges.
	Evacuate personnel to safe areas. Keep people away from and upwind
	of spill/leak.
Methods and Materials	Cut off the source of the leak as much as possible.
for Containment and	Keep leaks in a ventilated place.
Cleaning Up	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.
Environmental	: Prevent further leakage or spillage if safe to do so.
precautions	Discharge into the environment must be avoided.



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7. Handling and Storage

Precautions for Safe	: Handling is performed in a well ventilated place.
Handling	Avoid contact with eyes.
	Keep away from heat/sparks/open flames/ hot surfaces.
Conditions for Safe	: Keep containers tightly closed.
Storage, including any	Keep containers in a dry, cool and well-ventilated place.
Incompatibilities	Keep away from heat/sparks/open flames/hot surfaces.
	Store away from incompatible materials and foodstuff containers.

8. Exposure Controls / Personal Protection

Exposure Limit Values

No	Chemical Name	ACGIH (TLV)	OSHA (PEL)
			15 mg/m ³ TWA (mist, total particulate)
1	Glycerol	NT / / 11· 1 1	5 mg/m ³ TWA (mist, respirable fraction)
1 (56-81-5)	Not established	(Vacated) 10 mg/m ³ TWA (mist, total particulate)	
		(Vacated) 5 mg/m ³ TWA (mist, respirable fraction)	
0	Titanium dioxide	$\mathbf{TW} 1 0 \cdots 1 0^2$	15 mg/m3 TWA (total dust)
2	(13463-67-7)	TWA 10mg/m ³	(Vacated) 10 mg/m3 TWA (total dust)

Component Biological : No relevant regulations

Limit Values

Exposure Controls

Occupational Exposure Controls

Appropriate : Ensure adequate ventilation, especially in confined areas.

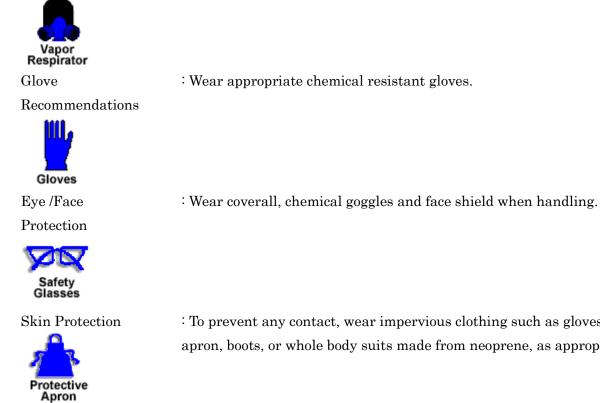
- Engineering Controls Ensure that eyewash stations and safety showers are close to the workstation location.
 - Set up emergency exit and necessary risk-elimination area.
 - Handle in accordance with good industrial hygiene and safety
 - practice.

Individual Protection Measures, such as Personal Protective Equipment

Respiratory Protection : Consult with a health and safety professional for specific respirators appropriate for your use.

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: To prevent any contact, wear impervious clothing such as gloves, apron, boots, or whole body suits made from neoprene, as appropriate.

Physical and Chemical Properties 9.

Appearance - Physical State	: Liquid
- Color	: White
Odor	: No information available
pH	: 7-9
Boiling Point / Boiling Range	: No information available
Melting Point / Melting Range	: No information available
Decomposition Temperature	: No information available
Flash Point	: Not flammable
Auto ignition temperature	: No information available
Flammability (Solid, Gas)	: Not flammable
Explosive Properties	: No information available
Oxidizing Properties	: No information available
Upper / Lower Flammability or	: No information available
Explosive Limits	
Vapor Pressure	
Relative Density	: No information available

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Solubility	: No information available
Water Solubility	: No information available
Partition Coefficient (n-octanol / Water)	: No information available
Viscosity	: 3-5mPa • s
Vapor Density	: No information available
Evaporation Rate	: No information available
VOC	: No information available

10. Stability and Reactivity

Conditions to Avoid	: Incompatible materials, heat, flame and spark.
Stability	: Stable under proper operation and storage conditions.
Materials to Avoid	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.
Hazardous Reactions /	: Contact with incompatible substances can cause decomposition or
Decomposition Products	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.

11. Toxicological Information

Acute Toxicity	: Glycerol (56-81-5)
	Oral LD ₅₀ Rat 12,600 mg/kg
	Dermal LD ₅₀ Rabbit >10,000 mg/kg
Skin corrosion/irritation	[:] Based on available data, the classification criteria are not met
Serious eye	[:] Based on available data, the classification criteria are not met
damage/irritation	
Respiratory	[:] Based on available data, the classification criteria are not met
sensitization	
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

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Reproductive toxicity	\div Based on available data, the classification criteria are not met
Specific Target Organ	$\ddot{\cdot}$ Based on available data, the classification criteria are not met
Toxicity - Single	
Exposure	
Specific Target Organ	$\ddot{\cdot}$ Based on available data, the classification criteria are not met
Toxicity - Repeated	
Exposure	
Aspiration hazard	: Based on available data, the classification criteria are not met

12. Ecological Information

	Handling is noted because it might influence the environment when
	leaking and abandoning it.
	Especially, note that the product doesn't flow directly to ground, the
	river, and the drain ditch.
Ecotoxicity (Acute	: Glycerol (56-81-5)
aquatic toxicity)	LC ₅₀ Fish 885 mg/L(96h)
Ecotoxicity (Chronic	: No information available.
aquatic toxicity)	
Mobility	: No information available for the product.
Persistence and	: No information available for the product.
Degradability	
Bioaccumulative	: No information available for the product.
Potential	
Other Adverse Effects	: No information available for the product.

13. Disposal Considerations

	: Comply with all USA, national and local regulations.
	Do not dump this product into sewers, on the ground or into any body
	of water.
Waste chemicals	: Recommend the use of incineration disposal.
Contaminated	: Containers may still present chemical hazard when empty. Keep
packaging	away from hot and ignition source of fire.



	Check a thing without a leak in a container.
	Perform prevention of collapse of cargo surely.
IMDG-CODE	: Not regulated as dangerous goods for transport.
IATA-DGR	: Not regulated as dangerous goods for transport.
UN-ADR	: Not regulated as dangerous goods for transport.

15. Regulatory Information

OSHA Status	: This product is not considered to be hazardous under 29 CFR 1910.1200.
TSCA Status	: Polyurethane resin (Trade Secret) Yes
	Glycerol (56-81-5) Yes
	Titanium dioxide (13463-67-7) Yes

Other regulatory

California Proposition 65

: WARNING



This product can expose you to chemicals including Titanium dioxide which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

16. Other Information

References

SDS of raw material
IPCS: The International Chemical Safety Cards (ICSC)

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