

Safety Data Sheets

1. Identification

Product Name	: PHT50 Yellow
Order No.	: PHT50-Y-60
General Use	: Inkjet printing ink
Product Description	: Water based pigment ink
SDS Number	: 037-W557290
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 No.	: +1 866 928 0789 (within United States only, Toll free) +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

Safety Data Sheets

None

Precautionary Statements

[Prevention]

None

[Response]

None

[Storage]

None

[Disposal]

None

3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Water	65-75	7732-18-5
2	Diethylene Glycol	10-20	111-46-6
3	Glycerol	1-10	56-81-5
4	Polyurethane resin	1-10	Trade Secret
5	Pigment Yellow	1-10	68516-73-4

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

Safety Data Sheets

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 Media	: There is no restriction on the type of extinguisher which may be used.
Special Hazards Arising from the Chemical	: Development of hazardous combustion gases or vapor possible in the event of fire.
Special Protective Equipment and Precautions for Firefighters	: As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) 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 Equipment and Emergency Procedures	: Use personal protective equipment, do not breathe 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.
Methods and Materials for Containment and Cleaning Up	: Cut off the source of the leak as much as possible. 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.
Environmental precautions	: Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided.

Safety Data Sheets

7. Handling and Storage

Precautions for Safe Handling	: 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 Storage, including any Incompatibilities	: 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.

8. Exposure Controls / Personal Protection

Exposure Limit Values

No	Chemical Name	ACGIH (TLV)	OSHA (PEL)
1	Glycerol (56-81-5)	Not established	15 mg/m ³ TWA (mist, total particulate) 5 mg/m ³ TWA (mist, respirable fraction) (Vacated) 10 mg/m ³ TWA (mist, total particulate) (Vacated) 5 mg/m ³ TWA (mist, respirable fraction)

Component Biological Limit Values : No relevant regulations

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.



Glove : Wear appropriate chemical resistant gloves.

Safety Data Sheets

Recommendations



Gloves

Eye /Face Protection : Wear coverall, chemical goggles and face shield when handling.



Safety Glasses

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



Protective Apron

9. Physical and Chemical Properties

Appearance	- Physical State	: Liquid
	- Color	: Yellow
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 Explosive Limits		: No information available
Vapor Pressure		
Relative Density		: No information available
Solubility		: No information available
Water Solubility		: No information available
Partition Coefficient (n-octanol / Water)		: No information available
Viscosity		: 3-5mPa · s

Safety Data Sheets

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 / Decomposition Products	: 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.

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 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
Specific Target Organ Toxicity - Single Exposure	: Based on available data, the classification criteria are not met

Safety Data Sheets

Specific Target Organ : 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 aquatic toxicity) : Glycerol (56-81-5)
 LC₅₀ Fish 885mg/L(96h)

Ecotoxicity (Chronic aquatic toxicity) : No information available.

Mobility : No information available for the product.

Persistence and Degradability : No information available for the product.

Bioaccumulative Potential : No information available for the product.

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 packaging : Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire.

14. Transport Information

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.

Safety Data Sheets

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

Pigment Yellow (68516-73-4) Yes

Other regulatory

California Proposition 65 : Not regulated under California Proposition 65

16. Other Information

References

1) SDS of raw material

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

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