

Product Name: PHT50 Yellow SDS No. 037-W557320

> First issue: 2022/12/12 Revised: 2023/05/12

1. IDENTIFICATION

Product Identifier PHT50 Yellow PHT50-Y-60 Product code Recommended use and restriction use Inkiet printing ink

Manufacturer MIMAKI ENGINEERING CO., LTD.

2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN

+81-268-64-2413

MIMAKI SINGAPORE PTE. LTD. Importer / Distributor Information

31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03

+65-6508-2789

+65 3165 2217 (within Singapore only) Emergency telephone number

+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 None Storage Disposal None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances or mixtures **Mixtures**

Chemical name	Contents	Chemical Formula	CAS RN
Water	65-75%	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
Pigment Yellow	1-10%	Unknown	68516-73-4

4. FIRST-AID MEASURES

In case of inhalation Move victim into fresh air. If breathing is difficult, give oxygen and

consult a physician immediately.

In case of 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.



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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 Not suitable extinguishing media Specific hazards arising from the chemical

Special protective actions for fire fighters

Use extinguishing media suitable for surrounding area.

There is no restriction on the type of extinguisher which may be used. Development of hazardous combustion gases or vapor possible in the event of fire.

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 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.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Discharge into the environment must be avoided.

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.

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 Handling is performed in a well ventilated place.

Avoid contact with eyes.

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

Storage

Suitable storage conditions 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

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

Ensure adequate ventilation, especially in confined areas. Engineering measures

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

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 impervious clothing such as gloves,

apron, boots, or whole body suits made from neoprene, as appropriate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State Liquid Color Yellow

Odor No information available Odor threshold No information available

7-9 pН

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 No information available Vapor pressure No information available Vapor density Relative density No information available Solubility(ies) No information available No information available Partition coefficient: n-octanol/water

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Auto-ignition temperature Decomposition temperature Viscosity No information available No information available

3-5mPa∙s

10. STABILITY AND REACTIVITY

Chemical stability Stable under proper operation and storage conditions.

Conditions to avoid Incompatible materials, heat, flame and spark.

Incompatible materials 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 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

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

products should not be produced.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (Oral) Glycerol (56-81-5)

 $LD_{50} \; Rat \; 12,\!600 \; mg/kg$

Acute toxicity (Dermal) Glycerol (56-81-5)

LD₅₀ 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

Specific target organ Toxicity - Single

Exposure

Specific target organ toxicity -

opecine target organ toxicity

Repeated Exposure

lactation

Aspiration hazard Based on available data, the classification criteria are not met

12. ECOLOGICAL INFORMATION

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Hazardous to the Aquatic Environment -

Acute Toxicity

Glycerol (56-81-5) LC₅₀ 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. IATA Not regulated as dangerous goods for transport. **ADR** Not regulated as dangerous goods for transport.

15. REGULATORY INFORMATION

No main regulation

Component Analysis - Inventory

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
Pigment Yellow (68516-73-4)							

Pigment	Yellow	(68516	− <i>/</i> 3−4 <i>)</i>

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Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

16. OTHER INFORMATION

Literature References

1) SDS of raw material

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

Other data

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.

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