

Product Name: PHT50 Black SDS No. 037-W557306

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

## 1. IDENTIFICATION

Product Identifier PHT50 Black Product code PHT50-K-60 Recommended use and restriction use Inkiet printing ink

Manufacturer MIMAKI ENGINEERING CO., LTD.

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

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Importer / Distributor Information MIMAKI AUSTRALIA PTY LTD.

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## 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	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
Carbon Black	1-10%	Unknown	1333-86-4

## 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

Page 1 of 6



Product Name: PHT50 Black SDS No. 037-W557306 First issue: 2022/12/12

Revised: 2023/05/12

advice/attention.

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  $% \left( 1\right) =\left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right) \left( 1\right) +\left( 1\right) \left( 1\right)$ 

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. Cut off the source of the leak as much as possible.

Methods and materials for containment

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.

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.

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

Avoid contact with eyes.

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)	Safe Work Australia
Glycerol (56-81-5)	Not established	10 mg/m3 TWA (Glycerin mist)
Diethylene Glycol (111-46-6)	Not established	23 ppm TWA, 100 mg/m3 TWA
Carbon Black (1333-86-4)	3 mg/m3 TWA	3 mg/m3 TWA
	(inhalable particulate)	

Engineering measures Ensure adequate ventilation, especially in confined areas.

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 Liauid Color Black

Odor No information available Odor threshold No information available

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Melting point No information available No information available **Boiling** point

Not flammable Flash point

Evaporation rate No information available

Flammability(Solid, Gas) Not flammable

Flammability or explosive limits No information available Vapor pressure No information available No information available Vapor density



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Relative density Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature

Decomposition temperature

Viscosity

No information available No information available No information available No information available No information available

3-5mPa s

#### 10. STABILITY AND REACTIVITY

Chemical stability Conditions to avoid

Incompatible materials

Hazardous decomposition products

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.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity (Oral)

Glycerol (56-81-5) LD<sub>50</sub> Rat 12,600 mg/kg Carbon Black (1333-86-4) LD<sub>50</sub> Rat >15,400 mg/kg Glycerol (56-81-5)

Acute toxicity (Dermal)

 $LD_{50}$  Rabbit >10,000 mg/kg Carbon Black (1333-86-4)

Acute toxicity (Inhalation : Gases) Acute toxicity (Inhalation: Vapours) Acute toxicity (Inhalation : dust/mist)

Skin corrosion/ Irritation Serious eye damage/irritation Respiratory Sensitization

Skin Sensitization Germ cell mutagenicity Carcinogenicity

Reproductive toxicity Reproductive toxicity, effects on or via

lactation

LD<sub>50</sub> Rabbit > 3,000 mg/kg Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met

Page 4 of 6



Product Name: PHT50 Black SDS No. 037-W557306

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

Specific target organ Toxicity - Single

Exposure

Repeated Exposure Aspiration hazard

Specific target organ toxicity -

Based on available data, the classification criteria are not met

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## 12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment -

**Acute Toxicity** 

Glycerol (56-81-5)

LC<sub>50</sub> Fish 885mg/L(96h)

Carbon Black (1333-86-4)

LC<sub>50</sub> Fish >1,000 mg/L(96h)

Hazardous to the Aquatic Environment -

Chronic Toxicity

No information available.

No information available. Hazardous to the Ozone layer

#### 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

#### Carbon Black (1333-86-4)

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

#### 16. OTHER INFORMATION

Literature References

1) SDS of raw material

Page 5 of 6



Other data

Product Name: PHT50 Black SDS No. 037-W557306 First issue: 2022/12/12 Revised: 2023/05/12

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.

Page 6 of 6