

SDS No. 037-W146038 First issue: 2021/04/16

Revised:

# Safety Data Sheets

#### 1. Identification

Product Name : Pigment Ink 3 For Textile Black

Order No. : TP3-K-22

Ink Ver. : 2

General Use : Inkjet printing ink

Product Description : Pigment ink SDS Number : 037-W146038

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, suite A, Suwanee, Georgia 30024, U.S.A.

Telephone No. : +1-678-730-0170 Emergency Telephone No. : +81-268-64-2281

### 2. Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

 $\begin{array}{ll} {\rm Carcinogenicity} & : {\rm Category} \; 2 \\ {\rm Toxic} \; {\rm to} \; {\rm Reproduction} & : {\rm Category} \; 2 \\ {\rm Specific} \; {\rm Target} \; {\rm Organ} \; {\rm Toxicity} & : {\rm Category} \; 1 \\ \end{array}$ 

(Repeated Exposure)

The above list does not include category being non-classifiable or not-applicable.

[GHS Label Elements]



SDS No. 037-W146038 First issue: 2021/04/16

Revised:

# Safety Data Sheets

Signal Word Danger

**Hazard Statements** 

H351 Suspected of causing cancer

H361 Suspected of damaging fertility or the unborn child

H372 Causes damage to organs through prolonged or repeated exposure

### **Precautionary Statements**

[Prevention]

P201 Obtain SDS (Safety Data Sheet) and printer's operation manual before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe gas/mist.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

[Response]

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

[Storage]

P405 Store locked up.

[Disposal]

P501 Dispose of contents/container in accordance with

local/regional/national/international regulation (to be specified).

#### Other Information

[Hazards not otherwise classified (HNOC)]

Not Applicable

[Other hazards]

Not Applicable

[Unknown Acute Toxicity]

24% of the mixture consists of ingredient(s) of unknown toxicity

#### HMIS Rating (scale 0-4)

NFPA Rating (scale 0-4)

Health = 1

Flammability= 0

Reactivity = 0

Protective Equipment = X

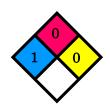


Health = 1

Flammability = 0

Instability = 0

Special = -



#### CANADIAN WHMIS SYMBOLS





SDS No. 037-W146038 First issue: 2021/04/16

Revised:

# Safety Data Sheets

### 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Water	60-70	7732-18-5
2	Solvent	5-15	Trade Secret
3	Glycerin	5-15	56-81-5
4	Diethylene glycol	5-10	111-46-6
5	Polymer	1-5	Trade Secret
6	Carbon black	1-5	1333-86-4
7	Others	1-5	Trade Secret

### 4. First Aid Measures

Inhalation : Remove to fresh air.

Eye Contact : Rinse thoroughly with plenty of water for at least 15 minutes, lifting

lower and upper eyelids. Consult a physician.

Skin Contact : Wash skin with soap and water.

Ingestion : Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms : Not Available

Indication of any immediate medical attention and special treatment needed

Note to physicians : Treat symptomatically.

#### 5. Fire Fighting Measures

Flammable Properties : Flash point; Not flammable

Explosion data; No data available

Extinguishing Media : CO2, dry chemical, dry sand, alcohol-resistant foam. Use

extinguishing measures that are appropriate to local circumstances

and the surrounding environment.



SDS No. 037-W146038 First issue: 2021/04/16

Revised:

# Safety Data Sheets

Unsuitable Extinguishing : Caution: Use of water spray when fighting fire may be inefficient.

Media

Fire Fighting : As in any fire, wear self-contained breathing apparatus

Instructions pressure-demand, MSHA/NIOSH (approved or equivalent) and full

protective gear.

#### 6. Accidental Release Measures

Personal Precautions : Use personal protection recommended in Section 8. Avoid contact

with eyes and skin.

Environmental : Do not allow into any sewer, on the ground or into any body of water.

precautions See Section 12 for additional Ecological Information.

Methods for containment : Prevent further leakage or spillage if safe to do so.

Methods for cleaning up : Take up with sand or other non-combustible absorbent material and

place into containers for later disposal. Use personal protective

equipment as required.

#### 7. Handling and Storage

Handling : Handle in accordance with good industrial hygiene and safety

practice.

Storage : No special requirements for writing instruments.

Incompatible materials : None known based on information supplied.

#### 8. Exposure Controls / Personal Protection

### **Exposure Limit Values**

No	Chemical Name	ACGIH	OSHA PEL	NIOSH IDLH
				IDLH: 1750 mg/m3
				TWA: 3.5 mg/m3
		TWA: 2 ma/m2	TWA: 3.5 mg/m3	TWA: 0.1 mg/m3
1	Carbon black	TWA: 3 mg/m3 inhalable fraction	(vacated)	Carbon black in
		illialable fraction	TWA: 3.5 mg/m3	presence of Polycyclic
				aromatic
				hydrocarbons PAH



SDS No. 037-W146038 First issue: 2021/04/16

Revised:

# Safety Data Sheets

	2	Glycerin (56-81-5)	N.E.	TWA: 15 mg/m3 mist, total particulate TWA: 5 mg/m3 mist, respirable fraction (vacated) TWA: 10 mg/m3 mist, total particulate (vacated) TWA: 5	N.E.
			(vacated) TWA: 5 mg/m3 mist,		
respirable fraction				respirable fraction	

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information : Vacated limits revoked by the Court of Appeals decision in AFL-CIO

v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Exposure Controls** 

Occupational Exposure Controls

Engineering Controls : Showers

Eyewash stations
Ventilation systems.

Personal Protection

Respiratory : Consult with a health and safety professional for specific respirators

Protection appropriate for your use.

Vapor Respirator

Hand Protection : Gloves made of plastic or rubber.





SDS No. 037-W146038 First issue: 2021/04/16

Revised:

# Safety Data Sheets

Eye Protection : Wear safety glasses with side shields (or goggles).



Skin Protection : Suitable protective clothing. Apron.



**Environmental Exposure Controls** 

: Not available

### 9. Physical and Chemical Properties

Appearance - Physical State : liquid

- Color : Black

Odor : Characteristic odor

pH : 7-9

Boiling Point / Boiling Range : Not Available

Melting Point / Melting Range : Not Available

Decomposition Temperature : Not Available

Flash Point : Not flammable

Auto ignition temperature : Not Available

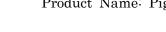
Upper / Lower Flammability or : Not Available

**Explosive Limits** 

Vapor Pressure : Not Available
Specific Gravity : Not Available
Solubility : Not Available
Water Solubility : dispersible

Viscosity  $:<10 \text{ mPa} \cdot \text{s} (25 ^{\circ}\text{C})$ 

VOC : Not Available



Product Name: Pigment Ink 3 For Textile Black SDS No. 037-W146038

First issue: 2021/04/16

Revised:

# **Mimaki**\* Safety Data Sheets

### 10. Stability and Reactivity

Conditions to Avoid : None known based on information supplied.

Reactivity : No reactivity under the normal usage

Stability : Stable under recommended storage conditions. Materials to Avoid : None known based on information supplied.

Possibility of Hazardous : None under normal processing.

Reactions

**Decomposition Products** : None known based on information supplied.

#### 11. Toxicological Information

: 24% of the mixture consists of ingredient(s) of unknown toxicity **Acute Toxicity** 

Chemical Name	Oral	Dermal	Inhalation
Chemicai Name	LD50	LD50	LC50
Glycerin (56-81-5)	-	> 10 g/kg ( Rabbit )	> 570 mg/m3 (Rat) 1 h
Diethylene glycol (111-46-6)	12565 mg/kg ( Rat )	11890 mg/kg ( Rabbit )	

**Eye Irritation** : Not Available Skin Irritation : Not Available Sensitization : Not Available

Specific Target Organ : Category 1 as a product.

Toxicity

(Repeated Exposure)

**Chronic Toxicity** : May cause adverse liver effects.

: Category 2 as a product. The table below indicates whether each Carcinogenicity

agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Carbon black	A3	Group 2B	-	X

Reproductive and Developmental Toxicity

: Category 2 as a product.



SDS No. 037-W146038 First issue: 2021/04/16

Revised:

### 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 : Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

36% of the mixture consists of component(s) of unknown hazards to

the aquatic environment

Chemical Name	Fish	Crustaces
Glycerin (56-81-5)	75200: 96 h Pimephales promelas mg/L LC50 flow-through	84000: 48 h Daphnia magna mg/L EC50
Diethylene glycol (111-46-6)	51 - 57: 96 h Oncorhynchus mykiss mL/L LC50 static	-

Persistence and

: Not Available

Degradability

Bioaccumulative

: Not Available

Potential

Other Adverse Effects

: Not Available

### 13. Disposal Considerations

: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Do not dump this product into sewers, on the ground or into any body of water.



SDS No. 037-W146038 First issue: 2021/04/16

Revised:

# Safety Data Sheets

### 14. Transport Information

Check a thing without a leak in a container. Perform prevention of collapse of cargo surely.

### <u>Us Department of Transportation (DOT)</u>

UN Number : Not regulated
Proper Shipping : Not regulated

Name

Hazardous Class : Not regulated Packing Group (PG) : Not regulated

Special Provisions : none

Marine pollutant : Not Applicable

<u>TDG</u>

UN Number : Not regulated
Proper Shipping : Not regulated

Name

Hazardous Class : Not regulated Packing Group (PG) : Not regulated

Special Provisions : none

Marine pollutant : Not regulated

MEX

UN Number : Not regulated
Proper Shipping : Not regulated

Name

Hazardous Class : Not regulated

Special Provisions : none

Packing Group (PG) : Not regulated

**IATA** 

UN Number : Not regulated
Proper Shipping : Not regulated

Name

Hazardous Class : Not regulated Packing Group (PG) : Not regulated

Special Provisions : none



SDS No. 037-W146038 First issue: 2021/04/16

Revised:

# Safety Data Sheets

### Sea Transport (IMDG)

UN Number : Not regulated
Proper Shipping : Not regulated

Name

Hazardous Class : Not regulated Packing Group (PG) : Not regulated

Special Provisions : none

Marine Pollutant : Not regulated
Environmental hazard : Not Applicable

### 15. Regulatory Information

### U.S. Federal Regulations

CERCLA : This material, as supplied, does not contain any substances regulated

Reportable Quantity as hazardous substances under the Comprehensive Environmental

(40 CFR 302) Response Compensation and Liability Act (CERCLA) (40 CFR 302) or

the Superfund Amendments and Reauthorization Act (SARA) (40

CFR 355). There may be specific reporting requirements at the local,

regional, or state level pertaining to releases of this material

SARA TitleIII

Section 311/312 : Acute health hazard No

(40 CFR 370) Chronic Health Hazard No

Fire hazard No

Sudden release of pressure hazard No

Reactive Hazard No

Section 313 : Section 313 of Title III of the Superfund Amendments and

(40 CFR 372) Reauthorization Act of 1986 (SARA). This product contains a

chemical or chemicals which are subject to the reporting

requirements of the Act and Title 40 of the Code of Federal

Regulations, Part 372

Chemical Name	CAS No	weight-%	SARA 313 - Threshold Values %
Triethylene glycol monobutyl ether (143-22-6)	143-22-6	<5	1.0



SDS No. 037-W146038 First issue: 2021/04/16

Revised:

# Safety Data Sheets

CWA (Clean Water Act) : This product does not contain any substances regulated as pollutants

pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

U.S. State Regulations

California Proposition

65

: WARNING:

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

Chemical Name	California Proposition 65
Carbon black	Carrier a man
(1333-86-4)	Carcinogen

U.S.State

: This product contains substances regulated by state right-to-know

Right-to-Know regulations.

Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Carbon black		X	V
(1333-86-4)	X	Λ	X
Glycerin	V	V	V
(56-81-5)	X	X	X
Triethylene glycol			
monobutyl ether	X	-	X
(143-22-6)			

U.S.EPA Label Information

EPA Pesticide : Not Applicable

Registration Number

Canada : This product has been classified in accordance with the hazard

criteria of the Controlled Products Regulations (CPR) and the SDS

contains all the information required by the CPR

WHMIS Hazard Class : D2A - Very toxic materials

Others : Please refer to any other federal, state and local regulations.



SDS No. 037-W146038 First issue: 2021/04/16

Revised:

### 16. Other Information

References 1) LOLI Database (ChemADVISOR, Inc.)

2) Japan National Institute of Technology and Evaluation

3) EU CLP(1272/2008)Annex VI Table 3.1

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