

Safety Data Sheets

Product Name	: Pigment Ink 3 For Textile Cyan
Order No.	: TP3-C-22
Ink Ver.	:2
General Use	: Inkjet printing ink
Product Description	: Pigment ink
SDS Number	: 037-W146052
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 Esta	ablished 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 Toxic to Reproduction Specific Target Organ Toxicity	Category 2 Category 1
(Repeated Exposure)	

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

[GHS Label Elements] Symbol



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Signal Word Danger

Hazard Statements 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. Responsel 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] 29% of the mixture consists of ingredient(s) of unknown toxicity

HMIS Rating (scale 0 - 4)

NFPA Rating (scale 0-4)

Health = 1	1 Health	Health = 1	
Flammability= 0	0 Flammability	Flammability = 0	
Reactivity $= 0$	0 Reactivity	Instability = 0	
Protective Equipment = X	X Protective Equipment	Special = -	

CANADIAN WHMIS SYMBOLS : Non-controlled



3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Water	55-65	7732-18-5
2	Solvent	10-20	Trade Secret
3	Glycerin	5-15	56-81-5
4	Diethylene glycol	5-10	111-46-6
5	Polymer	1-5	Trade Secret
6	Pigment Blue 15	1-5	147-14-8
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 immedia	te 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.

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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
1	Pigment Blue 15 (147-14-8)	TWA: 1 mg/m ³ Cu dust and mist	N.E.	IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist



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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 mg/m3 mist,	N.E.
			mg/m3 mist, 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

Protection



appropriate for your use.



: Gloves made of plastic or rubber.

Eye Protection



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

: Consult with a health and safety professional for specific respirators



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Skin Protection : Suitable protective clothing. Apron.



Environmental Exposure Controls

: Not available

9. Physical and Chemical Properties

Appearance - Physical State	: liquid	
- Color	: Blue	
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	

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

Acute Toxicity	: 29% of the mixture consis	ts of ingredien	t(s) of unknow	n toxicity
	Chemical Name	Oral	Dermal	Inhalation
	Chemical Name	LD50	LD50	LC50
	Glycerin (56-81-5)	-	> 10 g/kg (Rabbit)	> 570 mg/m3 (Rat) 1 h
	Diethylene glycol	12565	11890	
	(111-46-6)	mg/kg	mg/kg	
	(111 40 0)	(Rat)	(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 e	effects.		
Carcinogenicity	: This product does not contain any carcinogens or potential			
	carcinogens as listed by O	SHA, IARC or	NTP.	
Reproductive and Developr	nental Toxicity			
	Category 2 as a product.			

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.

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Ecotoxicity

: Toxic to aquatic life with long lasting effects. Toxic to aquatic life. 38% of the mixture consists of component(s) of unknown hazards to the aquatic environment

	the aquatic entricement		
	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 Potential	: Not Available		
Other Adverse Effects	: Not Available		

13. Disposal Considerations

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

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Pigment Blue 15	T rai-r
(147-14-8)	Toxic

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



14. Transport Information

	Check a thing without a leak in a container.
	Perform prevention of collapse of cargo surely.
<u>Us Department of Transp</u>	
UN Number	: Not regulated
Proper Shipping	: Not regulated
Name	C
Hazardous Class	: Not regulated
Packing Group (PG)	: Not regulated
Special Provisions	: none
Marine pollutant	: Not Applicable
TDG	
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
<u>MEX</u>	
UN Number	: Not regulated
Proper Shipping	: Not regulated
Name	
Hazardous Class	: Not regulated
Special Provisions	: none
Packing Group (PG)	: Not regulated
<u>IATA</u>	
UN Number	: Not regulated
Proper Shipping	: Not regulated
Name	
Hazardous Class	: Not regulated
Packing Group (PG)	: Not regulated
Special Provisions	: none

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<u>Sea Transport (IMDG)</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	
Environmental hazard	: Not Applicable	

15. Regulatory Information

U.S. Federal Regulations

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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 Liabil	ity Act (CERCLA) (40 CFR 302) or	
	the Superfund Amendments and R	eauthorization Act (SARA) (40	
	CFR 355). There may be specific re	porting requirements at the local,	
	regional, or state level pertaining t	o 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). This product contains a	
	chemical or chemicals which are su	bject to the reporting	
	requirements of the Act and Title 4	0 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



CWA (Clean Water Act)

: This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 С

CFR 1	122.42)
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Chaminal Name	CWA-Reportable	CWA-Toxic	CWA-Priority	CWA-Hazardous
Chemical Name	Quantities	Pollutants	Pollutants	Substances
Pigment Blue 15	-	Х	-	-
(147-14-8)				

U.S. State Regulations

California Proposition : This product does not contain any Proposition 65 chemicals 65 U.S.State : This product contains substances regulated by state right-to-know Right-to-Know regulations. Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Pigment Blue 15 (147-14-8)	X	-	Х
Glycerin (56-81-5)	Х	Х	Х
Triethylene glycol monobutyl ether	Х	-	Х
(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	: Non-controlled
Others	: Please refer to any other federal, state and local regulations.

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16. Other Information

References

LOLI Database (ChemADVISOR, Inc.)
Japan National Institute of Technology and Evaluation
EU CLP(1272/2008)Annex VI Table 3.1

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