

1. Identification

Product Name	: Textile Pigment Ink TP250 Blue	
Order No.	: SPC-0730BL-1	
General Use	: Inkjet printing ink	
Product Description	: Pigment ink	
SDS Number	: 037-W250953	
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		
Eye Damage / Irritation	Category 2A	
Specific Target Organ Toxicity	Category 2 (kidneys)	
(Repeated Exposure)		

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

[HCS Label Elements] Symbol



Signal Word Warning Hazard Statements H319 Cause serious eye irritation H373 May cause damage to organs through prolonged or repeated exposure(kidney) **Precautionary Statements** [Prevention] P260 Do not breathe gas/mist. P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. [Response] P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/attention if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention. [Disposal] P501 Dispose of contents/container in accordance with

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

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 44.3982 %

3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.	
1	Ethane-1,2-diol	<10	107-21-1	
2 Diglycol ether derivative		<10	Trade Secret	
3	Humectant	<30	Trade Secret	
4	Cyclic amide	<10	Trade Secret	
5	Non regulated ingredients	>40	Trade Secret	
0	Polyethylene oxide ether with	1 50/	0014 05 1	
6	2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)	1-5%	9014-85-1	

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.



4. First Aid Measures	
General advice	: Never give anything by mouth to an unconscious person. When
	symptoms persist or in all cases of doubt seek medical advice.
Inhalation	: If inhaled, remove to fresh air. If breathing is difficult, give oxygen.
	If breathing is irregular or stopped, administer artificial respiration.
	Get medical attention.
Eye Contact	: In case of eye contact, remove contact lens and rinse immediately
	with plenty of water, also under the eyelids, for at least 15 minutes.
	Get medical advice/ attention.
Skin Contact	: In case of contact, immediately flush skin with plenty of water for at
	least 15 minutes while removing contaminated clothing and shoes.
	Get medical attention if irritation develops and persists. Wash
	contaminated clothing before re-use.
Ingestion	: If swallowed, call a poison control center or doctor immediately.
	Rinse mouth with water. DO NOT induce vomiting unless directed
	to do so by a physician or poison control center.
Most important	: No applicable data available.
symptoms/effects, acute	
and delayed	
Protection of first-aiders	: No applicable data available.
Notes to physician	: No specific intervention is indicated. Treat symptomatically.

5. Fire Fighting Measures

Flammable Properties	: Flash point :>100°C	
Extinguishing Media	Use extinguishing measures that are appropriate to local	
	circumstances and the surrounding environment. Water spray, Dry	
	chemical, Carbon dioxide (CO2)	
Unsuitable Extinguishing	: No applicable data available.	
Media		
Special Hazards	: Hazardous decomposition products formed under fire conditions.	
	(see also section 10) Avoid breathing decomposition products.	

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Special protective	: Exposure to decomposition products may be a hazard to health.
equipment for firefighters	Wear self-contained breathing apparatus for firefighting if
	necessary.
Further information	: Evacuate personnel to safe areas. Stop spill/release if it can be done
	with minimal risk. Do not allow run-off from fire fighting to enter
	drains or water courses.

6. Accidental Release Measures

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

cicali up.	
Safeguards (Personnel)	Avoid contact with skin, eyes and clothing. Ensure adequate
	ventilation. Wear suitable protective equipment.
Environmental	: Prevent further leakage or spillage if safe to do so. Prevent product
precautions	from entering drains. Clean contaminated floors and objects
	thoroughly while observing environmental regulations.
Spill Cleanup	: Contain spill. Soak up with inert absorbent material. Collect and
	contain contaminated absorbent and dike material for disposal.
	Keep in suitable, closed containers for disposal. Ventilate the area.
	Clean contaminated floors and objects thoroughly while observing
	environmental regulations.
Accidental Release	: Dispose of in accordance with local regulations.
Measures	

7. Handling and Storage

Handling (Personnel)	Avoid inhalation, ingestion and contact with skin and eyes. Do not	
	use in areas without adequate ventilation. For personal protection	
	see section "Exposure controls/personal protection"	
	Handle in accordance with good industrial hygiene and safety	
	practice. Keep container closed. Keep away from food and drink.	
	Wash hands before eating, drinking, or smoking. Remove	
	contaminated clothing and protective equipment before entering	
	eating areas. Wash contaminated clothing before re-use.	

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Aspects)	
Dust explosion class : No applicable data available.	
Storage : Keep containers tightly closed in a cool, well-ventilated place. Do not	
store or consume food, drink or tobacco in areas where they may	
become contaminated with this material. Do not reuse empty	
container.	
Stable under normal conditions.	
Storage period : No applicable data available.	
Storage temperature : No applicable data available.	

Exposure Controls / Personal Protection 8.

Exposure Limit Values

No	Chemical Name		
1	Ethane-1,2-diol	ACGIH	TLV-C 100 mg/m3 (Aerosol)
9	Diglycol ether	OSHA PEL	100 ppm, 600 mg/m3 (8 hr. TWA)
2	2 derivative	ACGIH TLV	100 ppm TWA, 150 ppm STEL
3	Humectant	OSHA PEL	5 mg/m3 8 hr. TWA Respirable fraction.
			15 mg/m3 8 hr. TWA Total dust.

Component Biological

Limit Values

Exposure Controls

Occupational Exposure Controls

Appropriate

Vapor

Engineering Controls

: Ensure adequate ventilation. Maintain air concentrations below occupational exposure standards. General mechanical ventilation is normally adequate but use local exhaust where necessary to maintain exposures below acceptable limits.

Individual Protection Measures, such as Personal Protective Equipment

:

Respiratory Protection : No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Consult the respirator manufacturer to determine the appropriate type of Respirator equipment for a given application. Observe respirator use limitations

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Glove Recommendations specified by the manufacturer.

: Material: Impervious gloves

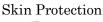
Additional protection: Gloves must be inspected prior to use., Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough., The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., The exact break through time can be obtained from the protective glove producer and this has to be observed., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

: Wear safety glasses or coverall chemical splash goggles.

Safety Glasses

Eye /Face

Protection





: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Lightweight protective clothing and safety shoes are recommended.

Environmental Exposure Controls

: Not Available

9. Physical and Chemical Properties

Appearance - Physical State : liquid - Color : blue Odor : slight pН : 7.0-8.0 **Boiling Point / Boiling Range** : Not Available Melting Point / Melting Range : Not Available Flash Point $:> 100^{\circ}$ C Method: closed cup Upper / Lower Flammability or : Not Available **Explosive Limits**

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Relative Density	: Not Available
Solubility	: Not Available
Water Solubility	: Not Available

10. Stability and Reactivity

Reactivity	: No dangerous reaction known under conditions of normal use.	
Conditions to Avoid	: Avoid extreme heat. Do not freeze.	
Stability	: The product is chemically stable under recommended conditions of	
	storage, use and temperature.	
	Stable at normal temperatures and storage conditions.	
Possibility of hazardous	: None reasonably foreseeable.	
reactions		
Materials to Avoid	: Acids, bases and strong oxidizing agents	
Hazardous Reactions /	: No decomposition if stored and applied as directed.	
Decomposition Products	Under fire conditions:, Carbon monoxide, carbon dioxide and	
	unburned hydrocarbons (smoke).	

11. Toxicological Information

No data is available on the product itself. Information given is based on data on the components.

Ethane-1,2-diol	
Inhalation	: no data available
Dermal LD50	2 > 3,500 mg/kg , Mouse
Oral LD50	: 1,650 mg/kg , Cat
Skin irritation	: No skin irritation, Rabbit
Eye irritation	: No eye irritation, Rabbit
Skin sensitization	: Does not cause skin sensitization., human
Repeated dose toxicity	: Oral(Rat)-
	Target Organs: Kidney
	Kidney damage
Carcinogenicity	: Not classifiable as a human carcinogen.
	Animal testing did not show any carcinogenic effects.
Mutagenicity	Animal testing did not show any mutagenic effects. Tests on bacterial
	or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity	: No toxicity to reproduction. No effects on or via lactation.

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	Animal testing showed no reproductive toxicity.
Teratogenicity	: Evidence suggests the substance is not a developmental toxin in animals.
Diglycol ether derivative	
Inhalation 4 h Acute	: > 20 mg/l , Rat
toxicity estimate	An LC50/inhalation/4h/rat could not be determined because no
	mortality of rats was observed at the maximum achievable
	concentration.
Dermal LD50	÷9,500 mg/kg , Rabbit
Oral LD50	: 5,180 mg/kg , Rat
Skin irritation	: No skin irritation, Rabbit
Eye irritation	: slight irritation, Rabbit
Skin sensitization	: Patch test on human volunteers did not demonstrate sensitisation
	properties., human
Repeated dose toxicity	: Oral (Rat) -
	No toxicologically significant effects were found.
	Inhalation(multiple species) -
	No toxicologically significant effects were found.
	Dermal (Rabbit) - 90 d
	Skin irritation
Carcinogenicity	: Not classifiable as a human carcinogen. Animal testing did not show
	any carcinogenic effects. Information given is based on data obtained
	from similar substances.
Mutagenicity	: Tests on bacterial or mammalian cell cultures did not show
	mutagenic effects. Evidence suggests this substance does not cause
	genetic damage in animals.
Reproductive toxicity	: No toxicity to reproduction. Animal testing showed no reproductive
	toxicity. Information given is based on data obtained from similar
	substances.
Teratogenicity	Animal testing showed no developmental toxicity.
Humectant	
Dermal LD50	: 56,750 mg/kg , Guinea pig
Oral LD50	: 27,260 mg/kg , Rat
Skin irritation	No skin irritation, Rabbit
Eye irritation	No eye irritation, Rabbit
Skin sensitization	Does not cause skin sensitization., human
Repeated dose toxicity	: Oral(Rat) NOAEL: 8,000 mg/kg

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	No toxicologically significant effects were found.
Carcinogenicity	: Not classifiable as a human carcinogen.
	Animal testing did not show any carcinogenic effects.
Mutagenicity	: Tests on bacterial or mammalian cell cultures did not show
	mutagenic effects.
Reproductive toxicity	: No toxicity to reproduction.
	Animal testing showed no reproductive toxicity.
Teratogenicity	Animal testing showed no developmental toxicity.
Cyclic amide	
Inhalation	: Rat
	An LC50/inhalation/4h/rat could not be determined because no
	mortality of rats was observed at the maximum achievable
	concentration.
Dermal LD50	2,000 mg/kg, Rat
Oral LD50	: 8,000 mg/kg , Rat
Skin irritation	: No skin irritation, Rabbit
Eye irritation	: Eye irritation, Rabbit
Skin sensitization	: Does not cause skin sensitization., Mouse
	Information given is based on data obtained from similar substances.
Repeated dose toxicity	: Oral (Rat) -
	NOAEL: 207 mg/kg Method: OECD Test Guideline 408
	Kidney effects
Mutagenicity	Animal testing did not show any mutagenic effects. Tests on bacterial
	or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity	: No toxicity to reproduction.
	Animal testing showed no reproductive toxicity.
Teratogenicity	Animal testing showed effects on embryo-fetal development at levels
	equal to or above those causing maternal toxicity.
Polyethylene oxide ether	with 2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)
Inhalation 4 h LC50	$\therefore > 5 \text{ mg/l}$, Rat
	Information given is based on data obtained from similar substances.
Dermal LD50	2,000 mg/kg, Rat
	Information given is based on data obtained from similar substances.
Oral LD50	: 6,370 mg/kg , Rat
Skin irritation	: No skin irritation, Rabbit
Eye irritation	Risk of serious damage to eyes., Rabbit
Skin sensitization	: Does not cause skin sensitization., Mouse

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	Information given is based on data obtained from similar substances.	
Repeated dose toxicity	: Ingestion(Rat) - 91 d NOAEL: 200 mg/kg	
	No toxicologically significant effects were found.	
Mutagenicity	: Tests on bacterial or mammalian cell cultures did not show	
	mutagenic effects. Evidence suggests this substance does not cause	
	genetic damage in animals. Information given is based on data	
	obtained from similar substances.	
Reproductive toxicity	: No toxicity to reproduction.	
	Animal testing showed no reproductive toxicity.	
Teratogenicity	Animal testing showed no developmental toxicity.	
Product		
Carcinogenicity	: The carcinogenicity classifications for this product and/or its	
	ingredients have been determined according to HazCom 2012,	
	Appendix A.6. The classifications may differ from those listed in the	
	National Toxicology Program (NTP) Report on Carcinogens (latest	
	edition) or those found to be a potential carcinogen in the	
	International Agency for Research on Cancer (IARC) Monographs	
	(latest edition).	
	None of the components present in this material at concentrations	
	equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a	
	carcinogen.	

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	Aquatic Toxicity:
Ethane-1,2-diol	
96 h LC50	Pimephales promelas (fathead minnow) 72,860 mg/l
96 h ErC50	Pseudokirchneriella subcapitata (green algae) 6,500 mg/l
48 h EC50	Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202



Diglycol ether derivative

96 h LC50	Pimephales promelas (fathead minnow) > 10,000 mg/l
72 h ErC50	Selenastrum capricornutum (green algae) > 969 mg/l
48 h EC50	Daphnia magna (Water flea) 1,919 mg/l
Humectant	
96 h LC50	Oncorhynchus mykiss (rainbow trout) 54,000 mg/l
48 h EC50	Daphnia magna (Water flea) 1,955 mg/l
Cyclic amide	
72 h ErC50	Desmodesmus subspicatus (green algae) > 500 mg/l
48 h EC50	Daphnia magna (Water flea) > 500 mg/l Directive 67/548/EEC, Annex
	V, C.2.

Polyethylene oxide ether with 2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)

96 h LC50	Fish 52.5 mg/l OECD Test Guideline 203
72 h EC50	Pseudokirchneriella subcapitata (green algae) 15 mg/l
	Information given is based on data obtained from similar substances.
72 h NOEC	Pseudokirchneriella subcapitata (green algae) 1 mg/l OECD Test
	Guideline 201
	Information given is based on data obtained from similar substances.
48 h EC50	Aquatic invertebrates 166 mg/l

Environmental Fate

Ethane-1,2-diol

Biodegradability	Readily biodegradable 90 - 100 % OECD Test Guideline 301	
Bioaccumulation	Bioaccumulation is unlikely.	
Diglycol ether derivative		
Biodegradability	Readily biodegradable	
Bioaccumulation	Bioaccumulation is unlikely.	
Cyclic amide		
Biodegradability	Biodegradable	
	Readily biodegradable	
Bioaccumulation	Bioaccumulation is unlikely.	
Polyethylene oxide ether with 2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)		
Bioaccumulation	Bioaccumulation is unlikely.	

Additional ecological information

No data is available on the product itself. Information given is based on data on the components.



13. Disposal Considerations

Waste disposal methods	: If recycling is not practicable, dispose of in compliance with local	
- Product	regulations. Never place unused product down any indoor or outdoor	
	drain.	
Waste disposal methods	: Do not reuse empty container.	
- Container	Contaminated/not cleaned containers should be treated/handled like	
	product waste.	
	Dispose of container properly.	
	Refer to applicable Local, State/Provincial, and Federal Regulations,	
	as well as industry Standards.	
Contaminated	: No applicable data available.	
packaging		

14. Transport Information

Us Department of	: Not regulated
Transportation (DOT)	
ICAO/IATA	: Not regulated
IMO/IMDG	: Not regulated

15. Regulatory Information

TSCA	: On the inventory, or in compliance with the inventory
SARA 313 Regulated	Ethane-1,2-diol
Chemical(s)	
PA Right to Know	Substances on the Pennsylvania Hazardous Substances List present
Regulated Chemical(s)	at a concentration of 1% or more (0.01% for Special Hazardous
	Substances): Ethane-1,2-diol, Humectant, Diglycol ether derivative
NJ Right to Know	Substances on the New Jersey Workplace Hazardous Substance List
Regulated Chemical(s)	present at a concentration of 1% or more (0.1% for substances
	identified as carcinogens, mutagens or teratogens): Humectant,
	Diglycol ether derivative, Ethane-1,2-diol



California Proposition 65



: WARNING:

This product can expose you to chemicals including Ethylene glycol(Ethane-1,2-diol), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. Other Information

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Mimaki Engineering Corporation.

It relates only to the specific material designated herein, and does not relate to use in combination with any other material or process.

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