



Product Name: Textile Pigment Ink TP250 Magenta

SDS No. 037-W250949

First issue: 2011/10/1

Revised: 2015/11/20

Safety Data Sheets

1. Identification

Product Name : Textile Pigment Ink TP250 Magenta
Order No. : SPC-0730M-1
General Use : Inkjet printing ink
Product Description : Pigment ink
SDS Number : 037-W250949
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. : +1-678-730-0700
Emergency Telephone No. : +81-268-64-2281

2. Hazards Identification

[HCS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Eye Damage / Irritation : Category 2A

Specific Target Organ Toxicity
(Repeated Exposure) : Category 2 (kidneys)

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

[HCS Label Elements]

Symbol



Signal Word
Warning



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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: 42.6643 %

3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Ethane-1,2-diol	<10	107-21-1
2	Diglycol ether derivative	<5	Trade Secret
3	Humectant	<30	Trade Secret
4	Cyclic amide	<5	Trade Secret
5	2-(2-(2-Butoxyethoxy)ethoxy)ethanol	1-5	143-22-6
6	Non regulated ingredients	>50	Trade Secret
7	Polyethylene oxide ether with 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.



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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 symptoms/effects, acute and delayed	: No applicable data available.
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 : >93.3°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 Media	: No applicable data available.
Special Hazards	: Hazardous decomposition products formed under fire conditions. (see also section 10) Avoid breathing decomposition products.



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Special protective equipment for firefighters : Exposure to decomposition products may be a hazard to health.
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.

Safeguards (Personnel) : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear suitable protective equipment.

Environmental precautions : Prevent further leakage or spillage if safe to do so. Prevent product 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 Measures : Dispose of in accordance with local regulations.

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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Handling (Physical Aspects)	: Normal measures for preventive fire protection.
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.

8. Exposure Controls / Personal Protection

Exposure Limit Values

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

Component Biological :
Limit Values

Exposure Controls

Occupational Exposure Controls

Appropriate : Ensure adequate ventilation. Maintain air concentrations below
Engineering Controls 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
equipment for a given application. Observe respirator use limitations

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Glove

specified by the manufacturer.

Recommendations



: 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.

Eye /Face

: Wear safety glasses or coverall chemical splash goggles.

Protection



Skin 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	: red
Odor		: slight
pH		: 7.0-9.0
Boiling Point / Boiling Range		: Not Available
Melting Point / Melting Range		: Not Available
Flash Point		: > 93.3°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 reactions	: None reasonably foreseeable.
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	: > 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 toxicity estimate

: > 20 mg/l , Rat

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.
2-(2-(2-Butoxyethoxy)ethoxy)ethanol	
Dermal LD50	: > 3,540 mg/kg , Rabbit
Oral LD50	: > 5,170 mg/kg , Rat
Skin irritation	: No skin irritation, Rabbit
Eye irritation	: Risk of serious damage to eyes., Rabbit Information given is based on data obtained from similar substances.
Skin sensitization	: Does not cause skin sensitization. Guinea pig Information given is based on data obtained from similar substances. Does not cause respiratory sensitisation., Guinea pig

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Information given is based on data obtained from similar substances.

Repeated dose toxicity

: Oral (Rat) -

NOAEL: 320 mg/kg

LOAEL: 1,270 mg/kg Method: OECD Test Guideline 408

No toxicologically significant effects were found., Information given is based on data obtained from similar substances.

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. Animal testing did not show any mutagenic effects. Information given is based on data obtained from similar substances.

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.

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

Inhalation 4 h LC50

: > 5 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

: No skin irritation, Rabbit

Eye irritation

: Risk of serious damage to eyes., Rabbit

Skin sensitization

: Does not cause skin sensitization., Mouse

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

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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.

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2-(2-(2-Butoxyethoxy)ethoxy)ethanol

96 h LC50	Leuciscus idus (Golden orfe) 2,200 mg/l DIN 38412
72 h ErC50	Desmodesmus subspicatus (green algae) > 612 mg/l
48 h EC50	Daphnia magna (Water flea) 2,210 mg/l
21d	NOEC Danio rerio (zebra fish) > 174.6 mg/l OECD Test Guideline 204 Information given is based on data obtained from similar substances.
21d	NOEC Daphnia magna (Water flea) > 174.6 mg/l OECD Test Guideline 211 Information given is based on data obtained from similar substances.

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.

2-(2-(2-Butoxyethoxy)ethoxy)ethanol

Biodegradability	rapidly biodegradable OECD Test Guideline 301D Readily biodegradable
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Polyethylene oxide ether with 2,4,7,9-tetramethyl-5-decyne-4,7-diol (2:1)

Bioaccumulation	Bioaccumulation is unlikely.
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Additional ecological information

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



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13. Disposal Considerations

Waste disposal methods - Product	: If recycling is not practicable, dispose of in compliance with local regulations. Never place unused product down any indoor or outdoor drain.
Waste disposal methods - Container	: Do not reuse empty 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 packaging	: No applicable data available.

14. Transport Information

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

15. Regulatory Information

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



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CERCLA Reportable	: 88 lbs
Quantity	Based on the percentage composition of this chemical in the product.: 2-(2-(2-Butoxyethoxy)ethoxy)ethanol
California Prop. 65	: Chemicals known to the State of California to cause cancer, birth defects or any other harm: none known

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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