

SDS No. 037-W184789 First issue: 2010/12/24

Revised: 2019/05/13

Safety Data Sheets

1. Identification

Product Name : Dye Sublimation Ink Sb210 Magenta

Order No. : SPC-0700M

Ink Ver. : 1

General Use : Ink jet printing ink **Product Description** : Dye Sublimation Ink

: 037-W184789 SDS Number

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. : +81-268-64-2281

2. Hazards Identification

[HCS Classification]

Physical Hazards

Flammable Liquids : Not classified

Health Hazards

Skin Corrosion / Irritation : Category 2 Eye Damage / Irritation : Category 2

Specific Target Organ Toxicity : Category 1 (Central nervous system, blood system,

(Single Exposure) kidney)

Category 3

Environmental Hazards

Hazardous to the Aquatic : Category 3

Environment - Acute Hazard

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

[HCS Label Elements]



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Signal Word Danger

Hazard Statements

H315 Cause skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation.

H336 May cause drowsiness and dizziness.

H370 Causes damage to organs (Central nervous system, blood system, kidney)

H402 Harmful to aquatic life

Precautionary Statements

[Prevention]

P260 Do not breathe gas/mist.

P264 Wash hands and eyes thoroughly after handling.

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

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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

Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

[Disposal]

P501 Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified).

NFPA Rating (scale 0-4)

HMIS Rating (scale 0-4)

Health = 2

Flammability = 1

Instability = 0

Special =



Health = 2

Flammability= 1

Reactivity = 0

Protective Equipment = -





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CANADIAN WHMIS SYMBOLS: D2A, D2B



3. Composition / Information on Ingredients

Mixture

No	Chemical Name	Wt%	CAS No.
1	Ethylene glycol	40-60	107-21-1
2	Water	20-50	7732-18-5
3	Propylene glycol	1-10	57-55-6
4	Glycerol	1-10	56-81-5
5	Disperse dye	1-10	Trade Secret
6	Additives	<10	Trade Secret

4. First Aid Measures

Inhalation : Remove person to fresh air and keep comfortable for breathing. Call

a POISON CENTER or doctor/physician.

Eye Contact : Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation

persists, get medical advice/attention.

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

advice/attention. Contaminated clothing should be removed and

laundered before reuse.

Ingestion : If swallowed, get medical attention. Rinse mouth.

Most Important : skin irritation, eye irritation, respiratory irritation, drowsiness and

Symptoms/Effects dizziness, central nervous system damage, blood system damage,

kidney damage

Indication of Immediate

Medical Attention and

Special Treatment

Needed, If Needed

: Treat symptomatically and supportively.



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Fire Fighting Measures

: Not flammable Flammable Properties

Extinguishing Media : water spray, carbon dioxide, dry chemical powder, foam

Unsuitable Extinguishing : Do not scatter spilled material with high-pressure water streams.

Media

Special Hazards Arising : Negligible fire hazard.

from the Chemical

Hazardous Combustion : Smoke, toxic or irritating fumes and particulates.

Products

Fire Fighting Measures : Move container from fire area if it can be done without risk. Do not

scatter spilled material with high-pressure water streams. Cool

containers with water spray until well after the fire is out. Stay away from the ends of tanks. Avoid inhalation of material or combustion

by-products.

Special Protective : Wear full protective fire fighting gear including self contained

Equipment and breathing apparatus (SCBA) for protection against possible exposure.

Precautions for

Firefighters

Accidental Release Measures

Personal Precautions, : Wear personal protective clothing and equipment, see Section 8.

Protective Equipment

and Emergency

Procedures

Methods and Materials

for Containment and

Cleaning Up

: Avoid heat, flames, sparks and other sources of ignition. Stop leak if

possible without personal risk. Reduce vapors with water spray.

Small spills: Absorb with sand or other non-combustible material.

Collect spilled material in appropriate container for disposal.

Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low

areas

Environmental : Avoid release to the environment. Collect spillage.

Precautions



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Handling and Storage

Precautions for Safe : Handle in accordance with good industrial hygiene and safety

Handling practice. Wear personal protective equipment. Avoid breathing vapors

> or mists. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when

using this product.

Conditions for Safe : Store and handle in accordance with all current regulations and

Storage, including any

standards. Keep container tightly closed. Store in a well-ventilated

Incompatibilities area. Keep cool, Avoid direct sunlight. Keep separated from

incompatible substances.

Incompatible Materials : Strong oxidants, strong bases and strong acids.

Exposure Controls / Personal Protection

Exposure Limit Values

No	Chemical Name	ACGIH TLV	OSHA PEL
1	1 Ethylene glycol	Ceiling: 100 mg/m3 aerosol only	Ceiling: 50ppm (vacated)
1		Cening: 100 mg/m3 aerosoi omy	Ceiling: 125 mg/m3 (vacated)
	Glycerol		TWA: 15 mg/m3 mist, total
0		TOWA: 10 m m/m 2 mint	particulate
2		TWA: 10 mg/m3 mist	TWA: 5 mg/m3 mist,
			respirable fraction

Component Biological : There are no biological limit values for any of this product's

Limit Values components.

Exposure Controls

Respirator

Occupational Exposure Controls

: Provide local exhaust or process enclosure ventilation system. Appropriate

Engineering Controls Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

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

appropriate for your use.



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Glove : Wear appropriate chemical resistant gloves.

Recommendations

Gloves

Eye /Face : Wear splash resistant safety goggles with a faceshield. Provide an

Protection emergency eye wash fountain and quick drench shower in the

immediate work area.

Safety Glasses

Skin Protection

: Wear appropriate chemical resistant clothing.



9. Physical and Chemical Properties

Appearance - Physical State : liquid

- Color : Magenta

Odor : Specific

Odor Threshold : No information available.

pH : 6-8

Boiling Point / Boiling Range : No information available.

Melting Point / Melting Range : No information available.

Decomposition Temperature : No information available.

Flash Point : Not flammable

Auto ignition temperature : No information available.

Flammability Limits in Air : No information available.

Explosion Limits : No information available.

Vapor Pressure : No data available Specific Gravity : 1.0-1.2 (25 degree C)

Solubility : No information available.

Water Solubility : Soluble in water

Partition Coefficient (n-octanol / Water) : No information available. Viscosity : 9-11mPa.s (25 degree C)

Vapor Density : No data available



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Evaporation Rate : No information available.

VOC : 40-60

10. Stability and Reactivity

: No reactivity hazard is expected. Reactivity

: Stable under normal conditions of use. Chemical Stability

Possibility of Hazardous : Will not polymerize.

Reactions

Conditions to Avoid : Avoid flames, sparks, and other sources of ignition. Avoid contact

with incompatible materials.

Incompatible Materials : Strong oxidants, strong bases and strong acids.

Hazardous : Smoke, toxic or irritating fumes and particulates.

Decomposition

11. Toxicological Information

Acute Toxicity : As a product

Oral (rat): LD50 > 2000 mg/kg

Skin (rat or rabbit): LD50 > 2000mg/kg

Skin Corrosion / : Cause skin irritation

Irritation

Eye Damage / Irritation : Causes serious eye irritation

Sensitization -: No information available for the product.

Respiratory

Sensitization - Skin : No information available for the product. Germ Cell Mutagenicity : No information available for the product. Carcinogenicity : No information available for the product. Toxic to Reproduction : No information available for the product.

Specific Target Organ : May cause respiratory irritation. May cause drowsiness and dizziness.

Toxicity (single Causes damage to organs (Central nervous system, blood system,

Exposure) kidney)

Specific Target Organ : No target organs identified.

Toxicity (Repeated

Exposure)

Aspiration Hazard : Not expected to be an aspiration hazard.



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Medical Conditions : No information available for the product.

Aggravated by Exposure

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 : Harmful to aquatic life

Hazardous to the Aquatic Environment - Acute Hazard, Category 3

Component Analysis -

: Ethylene glycol: Fish Rainbow trout LC50 47000µg / L / 96H

Aquatic Toxicity

Persistence and : No information available for the product.

Degradability

Bioaccumulation : No information available for the product.

Mobility : No information available for the product.

Other Toxicity : No information available for the product.

13. Disposal Considerations

Disposal Methods : Comply with all USA, national and local regulations.

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

of water.

Disposal of : Empty containers may contain product residue. Dispose in

Contaminated accordance with all applicable regulations.

Packaging

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

US DOT Information : Not regulated as a hazardous material for transport.

TDG Information
 Not regulated as dangerous goods for transport.
 IATA Information
 Not regulated as dangerous goods for transport.
 ICAO Information
 Not regulated as dangerous goods for transport.
 IMDG Information
 Not regulated as dangerous goods for transport.
 Marine Pollutant
 Not regulated as dangerous goods for transport.



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15. Regulatory Information

International Inventories

TSCA : All components are listed on the TSCA Inventory.

DSL : Additives Does not comply

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and 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 %
Ethylene glycol	107-21-1	40-60	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard : Yes
Chronic Health Hazard : Yes
Fire Hazard : No
Sudden Release of Pressure Hazard : No
Reactive Hazard : No

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).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous	RQ
		Substances RQs	
Ethylene glycol	5000 lb		RQ 5000 lb final RQ
			m RQ~2270~kg~final~RQ

U.S. State Regulations



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California Proposition 65

WARNING:



This product can expose you to chemicals including Ethylene glycol, 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.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Ethylene glycol	X	X	X	X	X
Propylene glycol	X	-	X	-	X
Glycerol	X	X	X	-	X

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Ethylene glycol		Mexico: Ceiling= 100 mg/m ³

Canada

: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Chemical Name	NPRI
Ethylene glycol	X

Legend

NPRI - National Pollutant Release Inventory

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.

Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.