

Light Magenta D SDS No. 037-W410667

First issue: 2016/05/10 Revised: 2019/12/18

# Safety Data Sheets

### 1. Identification

Product Name : Dye Sublimation Ink Sb320 Light Magenta D

Order No. : SB320-LMD-BB

Ink Ver. : 1

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

SDS Number : 037-W410667

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** 

Skin Corrosion / Irritation : Category 2

Eye Damage / Irritation : Category 2

Sensitization - Skin : Category 1

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

[HCS Label Elements]

Symbol





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Signal Word

Warning

**Hazard Statements** 

H315 Cause skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

### **Precautionary Statements**

[Prevention]

P261 Avoid breathing gas/mist/vapors.

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

#### [Response]

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

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

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

### [Storage]

None needed according to classification criteria.

#### [Disposal]

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

NFPA Rating (scale 0-4)

Health = 2

Flammability = 0

Instability = 0

Special =



# 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.
1	Water	55-65	7732-18-5
2	Glycerol	5-15	56-81-5
3	1,2-Propylene glycol	15-25	57-55-6
4	Preservative	< 0.2	Trade Secret
5	Glycerols	1-10	Trade Secret
6	Glycols	1-10	Trade Secret
7	Dye	1-10	Trade Secret
8	Other	<10	Trade Secret



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The chemical identity and/or percentage of composition is being withheld as a 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 : Gently 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.

Most Important Symptoms/Effects

Acute : skin irritation, eye irritation, allergic skin reaction.

Delayed : No information on significant adverse effects.

Indication of Immediate

Medical Attention and Special Treatment Needed, If Needed : Treat symptomatically and supportively.

### Fire Fighting Measures

Extinguishing Media : carbon dioxide, regular dry chemical, water spray, alcohol resistant

foam.

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

Media

Special Hazards Arising : Negligible fire hazard. Irritating and/or toxic fumes and gases may

from the Chemical be emitted upon the product's decomposition.

Hazardous Combustion : oxides of carbon, acrolein.

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



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by-products.

Special Protective

Equipment and

Precautions for

Firefighters

: Wear full protective fire fighting gear including self contained

breathing apparatus (SCBA) for protection against possible exposure.

### 6. Accidental Release Measures

Personal Precautions,

Protective Equipment

and Emergency

Procedures

Methods and Materials

for Containment and

Cleaning Up

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

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

Precautions

: Avoid release to the environment.

# 7. Handling and Storage

Precautions for Safe

Handling

: Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Do not eat, drink, or smoke when using this product. Wear suitable protective gloves and eye/face protection. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Conditions for Safe

Storage, including any

Incompatibilities

: None needed according to classification criteria.

Store and handle in accordance with all current regulations and standards. Store in a well-ventilated area. Keep container tightly

closed. Keep cool. Keep separated from incompatible substances.

Incompatible Materials : acids, bases, oxidizing materials, metal oxides, peroxides, reducing

agents, combustible materials, halocarbons, metals, metal salts.



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# 8. Exposure Controls / Personal Protection

Component Exposure Limits

Glycerol	OSHA	15 mg/m3 TWA mist, total particulate; 5 mg/m3 TWA mist,			
56-81-5		respirable fraction			
30 01 0	Mexico	10 mg/m3 TWA LMPE-PPT mist			

 ${\rm EU}$  - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures

There are no biological limit values for any of this product's components.

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

Engineering Controls : Provide local exhaust or process enclosure ventilation system. 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.

Vapor Respirator

Glove : Wear appropriate chemical resistant gloves.

immediate work area.

Recommendations



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

Protection emergency eye wash fountain and quick drench shower in the

emergency eye wash lountain and quick drench show

Safety Glasses

Skin Protection

: Wear appropriate chemical resistant apron.





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## 9. Physical and Chemical Properties

Appearance - Physical State : liquid

- Color : red

Odor : unique odor

pH : 8-10

Boiling Point / Boiling Range : Not available Melting Point / Melting Range : Not available Decomposition Temperature : Not available Flash Point : Not flammable : Not available Auto ignition temperature : Not available Flammability (Solid, Gas) **Explosive Properties** : Not available Oxidizing Properties : Not available Upper / Lower Flammability or : Not available

**Explosive Limits** 

Vapor Pressure : Not available Relative Density :  $1-1.2 \text{ g/cm}^3$  Solubility : Not available

Water Solubility : Soluble

Partition Coefficient (n-octanol / Water) : Not available
Viscosity : 4-6 mPas (25 °C)
Vapor Density : Not available
Evaporation Rate : Not available

### 10. Stability and Reactivity

Reactivity : No reactivity hazard is expected.

Chemical Stability : Stable under normal conditions of use.

Possibility of Hazardous : Will not polymerize.

Reactions

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

rupture or explode if exposed to heat. Avoid contact with incompatible

materials.

Incompatible Materials : acids, bases, oxidizing materials, metal oxides, peroxides, reducing



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agents, combustible materials, halocarbons, metals, metal salts.

Hazardous : oxides of carbon, acrolein.

Decomposition

### 11. Toxicological Information

Acute Toxicity : The components of this material have been reviewed in various sources

and the following selected endpoints are published.

	Oral	Dermal	Inhalation		
Glycerol	LD50 =12600 mg/kg	LD50 >10 g/kg	LC50 >570 mg/m3 1 h		
56-81-5	rat	rabbit	rat		
1,2-Propylene glycol	LD50 =20 g/kg	LD50 =20800 mg/kg			
57-55-6	rat	rabbit	-		

Information on Likely Routes of Exposure

Inhalation : irritation, difficulty breathing, nausea, vomiting

Ingestion : nausea, vomiting, diarrhea, headache, dizziness, drowsiness, stomach

pain

Skin Contact : irritation, allergic skin reaction

Eye Contact : irritation

Immediate Effects : skin irritation, eye irritation, allergic skin reaction

Delayed Effects : No information on significant adverse effects.

Medical Conditions : kidney disorders, skin disorders and allergies

Aggravated by

Exposure

Irritation/Corrosivity : skin irritation, eye irritation

Data

Respiratory : No information available for the product.

Sensitization

Dermal Sensitization : May cause an allergic skin reaction.

Germ Cell : No information available for the product.

Mutagenicity

Carcinogenicity : None of this product's components are listed by ACGIH, IARC, NTP,

DFG or OSHA

Tumorigenic Data : No data available

Reproductive Toxicity : No information available for the product.



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Specific Target Organ : No target organs identified.

Toxicity - Single

Exposure

Specific Target Organ

: No target organs identified.

Toxicity - Repeated

Exposure

Aspiration Hazard : Not expected to be an aspiration hazard.

### 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.

Component Analysis - Glycerol(56-81-5)

Aquatic Toxicity Fish: LC50 96 h Oncorhynchus mykiss 51 - 57 mL/L [static]

1,2-Propylene glycol(57-55-6)

Fish: LC50 96 h Oncorhynchus mykiss 51600 mg/L [static];

LC50 96 h Oncorhynchus mykiss 41 - 47 mL/L [static]; LC50 96 h Pimephales promelas 51400 mg/L [static];

LC50 96 h Pimephales promelas 710 mg/L

Algae: EC50 96 h Pseudokirchneriella subcapitata 19000 mg/L

**IUCLID** 

Invertebrate: EC50 48 h Daphnia magna >1000 mg/L [Static] EPA

Persistence and

: No information available for the product.

Degradability

Bioaccumulation : No information available for the product.

Mobility : 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.



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## 14. Transport Information

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

US DOT InformationNo Classification assigned.TDG InformationNo Classification assigned.UN NumberNo Classification assigned.

## 15. Regulatory Information

U.S. Federal : None of this products components are listed under SARA Sections

Regulations 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65),

CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process

safety plan.

Section 311/312 : Acute Health: Yes Chronic Health: No Fire: No Pressure: No

(40 CFR 370) Reactivity: No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Glycerol	56-81-5	No	Yes	Yes	Yes	Yes
1,2-Propylene glycol	57-55-6	No	No	Yes	Yes	Yes

California Proposition : Not listed under California Proposition 65

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Component Analysis - Inventory

Glycerol (56-81-5)

US	CA	EU	AU	PH	JP -	JP -	KR -	KR -	CN	NZ	MX	TW
					ENCS	ISHL	KECI/KECL	TCCA				
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes

### 1,2-Propylene glycol (57-55-6)

US	CA	EU	AU	ΡН	JP -	JP -	KR -	KR -	CN	NZ	MX	TW
					ENCS	ISHL	KECI/KECL	TCCA				
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes



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### 16. Other Information

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS -Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC -European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory, EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law, JP - Japan; Kow - Octanol/water partition coefficient; KECI - Korea Existing Chemicals Inventory, KECL - Korea Existing Chemicals List, KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA -Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL -Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act, TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL -Upper Explosive Limit; US - United States.

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