

SDS No. 037-S040320 First issue: 2008/06/12

Revised: 2019/10/30

# Safety Data Sheets

#### Identification

Product Name : ES3 ink Light Magenta

Order No. : SPC-0440LM

General Use : Ink for ink jet plotter Product Description : Solvent pigment ink

SDS Number : 037-S040320

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. : +1-678-730-0170

Emergency Telephone No. : +1 866 928 0789 (within United States only, Toll free)

+1 215 207 0061

#### **Hazards Identification**

#### [GHS Classification]

Physical Hazards

Flammable Liquids : Category 4

Health Hazards

Acute Toxicity - Oral : Not classified Acute Toxicity - Dermal : Not classified Acute Toxicity - Inhalation : Not classified Skin Corrosion / Irritation : Category 2 Eye Damage / Irritation : Category 2 Sensitization – Respiratory : Not classified Sensitization – Skin : Not classified Germ Cell Mutagenicity : Not classified Carcinogenicity : Not classified Toxic to Reproduction : Category 1



SDS No. 037-S040320 First issue: 2008/06/12

Revised: 2019/10/30

# Safety Data Sheets

Specific Target Organ Toxicity : Category 2 (central nerve)

(Single Exposure)

: Not classified Specific Target Organ Toxicity

(Repeated Exposure)

**Aspiration Hazard** : Not classified

**Environmental Hazards** 

Hazardous to the Aquatic : Not classified

Environment - Acute Hazard

Hazardous to the Aquatic : Not classified

Environment - Long Term Hazard

: Not classified Hazardous to the Ozone Layer

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

# [GHS Label Elements]

Symbol





Signal Word Danger

#### **Hazard Statements**

H227 Combustible liquid

H315 Causes skin irritation

H319 Causes serious eye irritation

H360 May damage fertility or the unborn child

H371 May cause damage to organs (central nerve)

#### **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.

P210 Keep away from open flames and other ignition sources. No smoking.

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.

P280 Wear protective gloves/ 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.



Product Name: ES3 ink Light Magenta

SDS No. 037-S040320 First issue: 2008/06/12 Revised: 2019/10/30

#### Continue rinsing.

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

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.

P370+P378 In case of fire: Use alcohol-resistant-related fire foam, dry chemical, carbon dioxide, water spray, dry sand for extinguish.

[Storage]

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

[Disposal]

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

HMIS Rating (scale 0-4)

NFPA Rating (scale 0-4)

Health = 2

Flammability= 2

Reactivity = 1

Protective Equipment = C



C Protective Equipment

Health = 2Flammability = 2

Instability = 1

Special = 0



CANADIAN WHMIS SYMBOLS: Not applicable

#### 3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical
				Formula
1	Diethylene Glycol Diethyl ether	55-65	112-36-7	$C_8H_{18}O_3$
2	Tetraethylene Glycol Dimethyl Ether	10-20	143-24-8	${ m C_{10}H_{22}O_{5}}$
3	$\gamma$ -Butyrolactone	<20	96-48-0	$\mathrm{C_4H_6O_2}$
4	Proprietary organic materials	1-5	Trade Secret	-
5	Tetraethylene Glycol Monobuthyl Ether	1-5	1559-34-8	${ m C}_{12}{ m H}_{26}{ m O}_5$
6	Colorants	<1	Trade Secret	-



SDS No. 037-S040320 First issue: 2008/06/12

Revised: 2019/10/30

#### 4. First Aid Measures

Inhalation : IF exposed or concerned: Get medical advice/attention. Remove

subject to ventilated fresh air. If not breathing, give artificial respiration right away. If breathing is difficult, give oxygen.

Eye Contact : Immediately flush with room temperature, low pressure and clean

water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if eye irritation continues. If eye irritation persists, Get medical advice/ attention.

Skin Contact : IF ON SKIN: Wash with plenty of soap and water. Take off

contaminated clothing and wash before reuse. If skin irritation

occurs: Get medical advice/attention.

Ingestion : IF exposed or concerned: Call a POISON CENTER/ doctor.

IF SWALLOWED: Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

: Skin: Ink contact with skin may cause irritation, swelling or

redness.

Note To Physician : Not necessary

#### Fire Fighting Measures

Flammable Properties : Combustible liquid under Hazard Communication Standard (HCS,

U.S.A).

Flash point : about 71°C (Closed cup)

Autoflammability: None

Explosive properties: 1.4~6.9v/v% as dipropylene glycol

mono-methyl ether

Extinguishing Media : Water spray, dry chemical, carbon dioxide or, alcohol foam

Unsuitable Extinguishing : None

Media

Fire Fighting : Extinguish to use fire fighting media or plentiful fog water.

Instructions Put protection wear without fail in case of firefighting work.

Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection (self-contained breathing apparatus).

Do not work in the leeward.



Product Name: ES3 ink Light Magenta

SDS No. 037-S040320 First issue: 2008/06/12

# Revised: 2019/10/30

#### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency : Eye or Skin protection required during clean-up. Use proper

personnel ventilation.

For emergency : None

responders

Environmental : Do not release to sewer, surface- or ground-water.

precautions:

Methods and material for containment and cleaning up

Advice on how to contain : Use sponges to wipe-up ink.

a spill

Advice how to clean-up : Rinse area with damp cloth. Place waste in closed container for

a spill disposal.

Wash hands with soap and water.

Any other information: Do not dispose of waste to the sewer.

Reference to other : Please refer SECTION 13 for disposal.

sections

#### Handling and Storage

Handling : Obtain SDS (Safety Data Sheet) and printer's manual instructions

before use. Do not handle until all safety precautions have been read and understood. Wear protective equipment (see 8-section). Use proper ventilation and no fire in work place. Keep out of reach of children and do not drink ink. Do not dismantle cartridge. Make sure cartridge is dry before insertion into printer housing. Avoid contact with skin, eyes or clothing. In the case of skin contact, wash with soap

and water.

Storage : Store locked up. Do not store the cartridge in high or freezing

temperatures. Keep cartridge out of direct sunlight. Do not store the

cartridge with oxidizing agents or explosives.

SPECIFIC USES : Not specified



Product Name: ES3 ink Light Magenta

SDS No. 037-S040320 First issue: 2008/06/12

Revised: 2019/10/30

#### Exposure Controls / Personal Protection

#### **Exposure Limit Values**

No	Chemical Name		The 8-Hour TWA Exposure Value
1	Diethylene glycol diethyl ether	California	5 ppm
	(CAS No. 112-36-7)	OELs	33mg/m³

California OELs: California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

#### **Exposure Controls**

Occupational Exposure Controls

**Engineering Controls** 

: Use exhaust ventilation to avoid from exposure.

Personal Protection

Respiratory

Protection



: An air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where air-borne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive-pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or in any other circumstances where air-purifying respirators may not provide adequate protection.

**Hand Protection** 



: Wear gloves that resist organic solvents and chemicals.

Eye Protection

: Wear coverall, chemical goggles and face shield when handling.



Skin Protection



: To prevent any contact, wear impervious clothing such as gloves, apron, boots, or whole body suits made from neoprene, as appropriate.

**Environmental Exposure Controls** 

: Not available



Product Name: ES3 ink Light Magenta

SDS No. 037-S040320 First issue: 2008/06/12

Revised: 2019/10/30

## 9. Physical and Chemical Properties

Appearance - Physical State : liquid

- Color : Magenta

Odor : Slightly

pH : Not Applicable
Boiling Point / Boiling Range : Not available
Melting Point / Melting Range : Not available
Decomposition Temperature : Not available

Flash Point : about 71°C (Closed cup)

Auto ignition temperature : Not available

Explosive Properties : Explosive limits: 1.4 $\sim$ 6.9v/v% as  $\gamma$ -Butyrolactone

Relative Density : Not available

Solubility (ies) : Soluble

Viscosity : Not available

Vapor Density : Greater than 1 (air = 1)

Evaporation Rate : Not available VOC : 756.5 g/L

#### 10. Stability and Reactivity

Conditions to Avoid : High and freezing temperatures
Stability : Stable under normal temperature

Materials to Avoid : Oxidizers and explosives

Hazardous Reactions / : To burn this product may be produce toxic gases.

Decomposition Products .

### 11. Toxicological Information

Acute Toxicity : Oral LD<sub>50</sub> Dermal LD<sub>50</sub>

>2500 mg/kg(rats) >2000 mg/kg(rats)

Eye Irritation : Moderate irritant. (rabbit, OECD 405)

Diethylene Glycol Diethyl ether: Category 2A (GHS Classification)

γ -Butyrolactone : Category 2A (GHS Classification)



SDS No. 037-S040320 First issue: 2008/06/12

Revised: 2019/10/30

# Safety Data Sheets

Skin Irritation : Mild irritant. (rabbit, OECD 404)

Diethylene Glycol Diethyl ether: Category 2 (GHS Classification)

Skin Sensitization : Non-sensitizer(LLNA, OECD 429)

Mutagenicity : Negative (by Ames Test)

Carcinogenicity : Not meet the criteria for classification according to EU Directive

1999/45/EC

Not contain any substances listed in IARC Monographs (1,2A and 2B)

Reproductive Toxicity : Tetraethylene Glycol Dimethyl Ether : Category 1B

(GHS Classification)

Specific Target Organ Toxicity (Single Exposure)

: γ -Butyrolactone : Category 2 (central nerve) (GHS Classification)

Category 3 (drowsiness or dizziness)

(GHS Classification)

### 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 : Not available

Persistence and : Not available

Degradability

Bioaccumulative : Not available

Potential

Results of PBT and : Has not carried out PBT and vPvB assessment

vPvB assessment

Other Adverse Effects : Not available



SDS No. 037-S040320 First issue: 2008/06/12

Revised: 2019/10/30

# 13. Disposal Considerations

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Comply with all USA, national and local regulations.
Do not dump this product into sewers, on the ground or into any body

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

#### 14. Transport Information

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

Us Department of Transportation (DOT)

Hazardous Materials : Not Applicable

Sea Transport (IMDG)

Class : Not Applicable
Packing Group (PG) : Not Applicable
UN Number : Not Applicable
Proper Shipping Name : Not Applicable
Marine Pollutant : Not Applicable

Air Transport (ICAO/IATA)

Class : Not Applicable
Packing Group(PG) : Not Applicable
UN Number : Not Applicable
Proper Shipping Name : Not Applicable



Product Name: ES3 ink Light Magenta

SDS No. 037-S040320 First issue: 2008/06/12

Revised: 2019/10/30

### 15. Regulatory Information

TSCA Section 4(a) : Not regulated

Final Test Rules

Regulated

TSCA Section 5 : Ingredient : Diethylene glycol diethyl ether (CAS No. 112-36-7)

Significant New Use Reference: 76FR40850

Rule Regulation Ingredient: Tetraethylene glycol dimethyl ether (CAS No. 143-24-8)

proposed Reference: 76FR40850

TSCA Section 8(a) : Not regulated

Preliminary Assessment

Information Rule (PAIR)

TSCA Section 12(b) Ingredient: Diethylene glycol diethyl ether (CAS No. 112-36-7)

One-Time Export Reference: TSCA 5 Proposed SNUR

Notification Regulated Ingredient: Tetraethylene glycol dimethyl ether (CAS No. 143-24-8)

Reference: TSCA 5 Proposed SNUR

Clean Air Act Section : Diethylene glycol diethyl ether (CAS No. 112-36-7)

112, Hazardous Air

**Pollutants** 

EPCRA : Diethylene glycol diethyl ether (CAS No. 112-36-7)

(SARA Title III)

Section 313

California Proposition : Not regulated

65

Canada Information : WHMIS Controlled Product:

Not applicable (Manufactured article)

Australia Information : Statement of Hazardous Nature:

Classified as Toxic and Irritant according to criteria of NOHSC

New Zealand : Hazardous Substances and New Organisms Act 1996:

Information Not regulated

Others : Please refer to any other federal, state and local regulations.



SDS No. 037-S040320 First issue: 2008/06/12 Revised: 2019/10/30

## 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.