

1. Identification

Product Name	: ES3 ink Magenta
Order No.	: SPC-0440M
General Use	: Ink for ink jet plotter
Product Description	: Solvent pigment ink
SDS Number	: 037-S040317
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 Esta	ablished 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)
	$+1\ 215\ 207\ 0061$

2. Hazards Identification

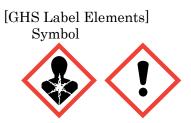
[GHS Classification] Physical Hazards	
Flammable Liquids	: Category 4
Health Hazards	
Acute Toxicity – Oral	: Not classified
Acute Toxicity – Dermal	: Not classified
Acute Toxicity – Inhalation	: Not classified
Skin Corrosion / Irritation	: Category 2
Eye Damage / Irritation	: Category 2
Sensitization-Respiratory	: Not classified
Sensitization - Skin	: Not classified
Germ Cell Mutagenicity	: Not classified
Carcinogenicity	: Not classified
Toxic to Reproduction	Category 1



Product Name: ES3 ink Magenta SDS No. 037-S040317 First issue: 2008/06/12 Revised: 2019/10/30

: Category 2 (central nerve)
: Not classified
: Not classified
: Not classified
• Not classified
: Not classified
: Not classified

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



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.



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 (se	cale 0 – 4)	NFPA Rating (scale $0-4$)
Health = 2	2 Health	Health = 2
Flammability= 2	2 Flammability	Flammability = 2
Reactivity = 1	1 Reactivity	Instability = 1 $\begin{pmatrix} 2 \\ 1 \end{pmatrix}$
Protective Equipment = C	C Protective Equipment	Special = 0
		V

CANADIAN WHMIS SYMBOLS : Not applicable

3. Composition / Information on Ingredients

No	Chemical Name	W/+0/	CAS No.	Chemical
INO	Chemical Name	Wt%		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	$\mathrm{C}_{10}\mathrm{H}_{22}\mathrm{O}_5$
3	γ -Butyrolactone	<20	96-48-0	$C_4H_6O_2$
4	Proprietary organic materials	1-10	Trade Secret	-
5	Tetraethylene Glycol Monobuthyl Ether	1-5	1559 - 34 - 8	$\mathrm{C}_{12}\mathrm{H}_{26}\mathrm{O}_5$
6	Colorants	1-5	Trade Secret	-



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 sympton	as and effects, both acute and delayed	
	: Skin: Ink contact with skin may cause irritation, swelling or	
	redness.	
Note To Physician	: Not necessary	

5. 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.	



6. Accidental Release Measures

Personal precautions, prote	ective 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 c	ontainment 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	

7. 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		



8. Exposure Controls / Personal Protection

Exposure Limit Values

N.			The 8-Hour TWA Exposure
No	Chemical Name		Value
1	Diethylene glycol diethyl ether	California	$5 \mathrm{~ppm}$
1	(CAS No. 112-36-7)	OELs	33mg/m ³

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









Skin Protection

Protective

: 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.

: Wear gloves that resist organic solvents and chemicals.

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

: 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



9. Physical and Chemical Properties

Appearance	- Physical State	: liquid		
	- Color	: Magenta		
Odor		: Slightly		
pH		: Not Applicable		
Boiling Point	/ Boiling Range	: Not available		
Melting Point	t / Melting Range	: Not available		
Decompositio	n Temperature	: Not available		
Flash Point		: about 71°C (Closed cup)		
Auto ignition temperature		: Not available		
Explosive Properties		: Explosive limits: 1.4~6.9v/v% as γ -Butyrolactone		
Relative Dens	sity	: Not available		
Solubility (ies	3)	: Soluble		
Viscosity		: Not available		
Vapor Densit	у	: Greater than 1 (air = 1)		
Evaporation 1	Rate	: Not available		
VOC		: 742.4 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 ₅₀	$Dermal LD_{50}$
	>2500mg/kg(rats)	>2000mg/kg(rats)
Eye Irritation	: Moderate irritant. (rabbit, OECD 405)	
	Diethylene Glycol Diethyl ether : Category 2A (GHS Classification)	
	γ -Butyrolactone : Category 2A (GHS Classification)	

MIMCIKI[®] 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.	
: Not available	
: Not available	
: Not available	
: Has not carried out PBT and vPvB assessment	
: Not available	



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 of water.

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

Us Department of Transportation (DO	T)
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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	



15. Regulatory Information

TSCA Section 4(a)	· Not nomilated
Final Test Rules	: Not regulated
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)
-	Reference: 76FR40850
proposed 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.



16. Other Information

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