Product Name: BS4 ink Magenta

SDS No. 037-S184555 First issue: 2019/01/11

Revised:

# \* \* \*Section 1 - IDENTIFICATION\* \* \*

# Product Identifier: BS4 ink Magenta

# **Product Description**

BS4-M-60 / BS4-M-2L

Ink Ver 2.

#### **Product Use**

Pigment ink for ink jet printer

#### **Restrictions on Use**

None known.

#### **Manufacturer Information**

Mimaki Engineering Co., Ltd 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 Japan Telephone number: +81-268-64-2413

Emergency telephone number: +81-268-64-2281

### **Importer / Distributor Information**

MIMAKI SINGAPORE PTE. LTD.

31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03

Telephone number: +65-6508-2789

# \* \* \*Section 2 - HAZARDS IDENTIFICATION\* \* \*

### SPRING/SS 586-2:2014

Serious Eye Damage/Eye Irritation, Category 2A

Specific Target Organ Toxicity - Single Exposure, Category 2 (central nervous system)

### **LABEL ELEMENTS**

# Symbol(s)



### Signal Word

WARNING

#### **Hazard Statement(s)**

H319 Causes serious eye irritation.

H371 May cause damage to central nervous system.

### **Precautionary Statement(s)**

#### Prevention

**P260** Do not breathe dust/fume/gas/mist/vapours/spray. **P270** Do not eat, drink or smoke when using this product. **P280** Wear protective gloves/protective clothing/eye protection/face protection. **P264** Wash thoroughly after handling.

# **Safety Data Sheets**

Product Name: BS4 ink Magenta SDS No. 037-S184555

First issue: 2019/01/11 Revised:

### Response

**P308+P313** IF exposed or concerned: Get medical advice/attention. **P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **P337+P313** If eye irritation persists: Get medical advice/attention.

#### Storage

**P405** Store locked up.

### **Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Other Hazards Which Do Not Result in Classification

None known.

# \* \* \*Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS\* \* \*

CAS	Component	Percent
Trade Secret	Glycol ether solvents	70-80
96-48-0	γ-Butyrolactone	10-20
Trade Secret	Quinacridone series Magenta	1-10
Trade Secret	Acrylic type resine	1-10
Trade Secret	Chlorinated Ethylene-Vinyl Acetate Copolymer (CEVA)	1-10
Trade Secret	Azo-Nickel complex pigment	0.1-5
Trade Secret	Additive 1	0.1-5
Trade Secret	Additive 2	0.1-5

#### **Contaminants**

The chemical identity and/or percentage of composition is being withheld as a trade secret.

# \* \* \*Section 4 - FIRST AID MEASURES\* \* \*

### Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

#### Skin

Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. Get medical attention if irritation develops.

# Eyes

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation or pain persists after fifteen minutes of eye irrigation, seek medical attention.

#### Ingestion

If swallowed, get medical attention.

### **Note to Physicians**

Treat symptomatically and supportively.

### **Symptoms: Immediate**

eye irritation, central nervous system damage

### Symptoms: Delayed

No information on significant adverse effects.

# \* \* \*Section 5 - FIRE FIGHTING MEASURES\* \* \*

### **Flammable Properties**

Combustible liquid and vapor. Irritating fumes and gases may be released upon thermal processing or during combustion.



Product Name: BS4 ink Magenta SDS No. 037-S184555

First issue: 2019/01/11 Revised:

### **Extinguishing Media**

carbon dioxide, regular dry powder, regular dry chemical, water spray, alcohol resistant foam

### **Unsuitable Extinguishing Media**

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

### **Protective Equipment and Precautions for Firefighters**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

### **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. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire.

#### **Hazardous Combustion Products**

Combustion: oxides of carbon, oxides of nitrogen

# \* \* \*Section 6 - ACCIDENTAL RELEASE MEASURES\* \* \*

#### **Personal Precautions**

Wear personal protective clothing and equipment, see Section 8.

#### **Environmental Precautions**

Avoid release to the environment.

#### **Methods for Containment**

Eliminate all ignition sources if safe to do so. Stop leak if possible without personal risk. Reduce vapors with water spray.

#### **Cleanup Methods**

**Small spills:** Absorb with earth, sand or other non-combustible material and transfer to container. 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.

# \* \* \*Section 7 - HANDLING AND STORAGE\* \* \*

#### **Precautions for Safe Handling**

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Do not eat, drink, or smoke when using this product. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling.

#### **Conditions for Safe Storage**

Store and handle in accordance with all current regulations and standards. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Grounding and bonding required. Store locked up. Keep separated from incompatible substances.

Incompatibilities: acids, bases, oxidizing materials, halogens

# \* \* \*Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION\* \* \*

#### **Component Exposure Limits**

Singapore and ACGIH have not developed exposure limits for any of this product's components.

# **Biological exposure limits**

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



Product Name: BS4 ink Magenta

SDS No. 037-S184555 First issue: 2019/01/11 Revised:

### **Engineering Controls**

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

#### PERSONAL PROTECTIVE EQUIPMENT

### Eyes/Face

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### **Protective Clothing**

Wear appropriate chemical resistant clothing.

### **Glove Recommendations**

Wear appropriate chemical resistant gloves.

# **Respiratory Protection**

Consult with a health and safety professional for specific respirators appropriate for your use.

# \* \* \*Section 9 - PHYSICAL AND CHEMICAL PROPERTIES\* \* \*

Physical State:	Liquid	Appearance:	red liquid		
Color:	red	Physical Form:	liquid		
Odor:	solvent odor	Odor Threshold:	Not available		
pH:	Not available	Melting Point:	Not available		
Boiling Point:	Not available	Flash Point:	70 °C		
Decomposition	Not available	Evaporation Rate:	Not available		
Temperature:		·			
LEL:	2.5 vol % (Glycol ether type	UEL:	33.0 vol % (Glycol ether		
	solvent)		type solvent)		
Vapor Pressure:	<=0.1 kPa (20°C) (Glycol	Vapor Density (air = 1):	Not available		
	ether type solvent)				
Density:	0.973 g/cm3	Water Solubility:	Not available		
Log KOW:	Not available	Coeff. Water/Oil Dist:	Not available		
Auto Ignition	169 °C (Glycol ether type	Viscosity:	4.0-4.5 mPas @25 °C		
Temperature:	solvent)				
Volatility:	Not available	Oxidizing Properties:	Not available		
Explosive Properties:	Not available	Flammability (solid, gas):	Not applicable		

# **Other Property Information**

No additional information is available.

# \* \* \*Section 10 - STABILITY AND REACTIVITY\* \* \*

### Reactivity

No reactivity hazard is expected.

### **Chemical Stability**

Stable under normal conditions of use. Avoid contact with incompatible materials.

### **Possibility of Hazardous Reactions**

Will not polymerize.

### **Conditions to Avoid**

Avoid flames, sparks, and other sources of ignition. Avoid contact with incompatible materials.

#### **Materials to Avoid (Incompatibilities)**

acids, bases, oxidizing materials, halogens



# **Safety Data Sheets**

Product Name: BS4 ink Magenta SDS No. 037-S184555 First issue: 2019/01/11

Revised:

### **Hazardous Decomposition:**

Combustion: oxides of carbon, oxides of nitrogen

# \* \* \*Section 11 - TOXICOLOGICAL INFORMATION\* \* \*

# **Acute and Chronic Toxicity**

#### Component Analysis - LD50/LC50

The component(s) of this material have been reviewed in various sources and the following selected endpoints are published:

### Glycol ether solvents (Trade Secret)

Oral LD50 Rat 6500 µL/kg

γ-Butyrolactone (96-48-0)

Oral LD50 Rat 1540 mg/kg; Inhalation LC50 Rat >5100 mg/m3 4 h (no deaths occurred)

### **Quinacridone series Magenta (Trade Secret)**

Oral LD50 Rat >23 g/kg

**Additive 2 (Trade Secret)** 

Oral LD50 Rat 40 g/kg; Dermal LD50 Rabbit >20 mL/kg

#### **Immediate Effects**

eye irritation, central nervous system damage

### **Delayed Effects**

No information on significant adverse effects.

### Irritation/Corrosivity Data

eye irritation

#### **Respiratory Sensitizer**

No information available for the product.

### **Dermal Sensitizer**

No information available for the product.

### Carcinogenicity

### **Component Carcinogenicity**

### γ-Butyrolactone (96-48-0)

IARC: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 11 [1976] (Group 3 (not

classifiable))

### Chlorinated Ethylene-Vinyl Acetate Copolymer (CEVA) (Trade Secret)

IARC: Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))

# **Mutagenic Data**

No information available for the product.

### **Reproductive Effects Data**

No information available for the product.

# **Specific Target Organ Toxicity - Single Exposure**

central nervous system

#### **Specific Target Organ Toxicity - Repeated Exposure**

No target organs identified.

# **Aspiration Hazard**

No information available for the product.

#### **Medical Conditions Aggravated by Exposure**

No information available for the product.

Product Name: BS4 ink Magenta

SDS No. 037-S184555 First issue: 2019/01/11

Revised:

# \* \* \*Section 12 - ECOLOGICAL INFORMATION\* \* \*

### **Ecotoxicity**

Harmful to aquatic life.

**Component Analysis - Aquatic Toxicity** 

γ-Butyrolactone (96-48-0)

Algae: 72 Hr EC50 Desmodesmus subspicatus: 360 mg/L; 96 Hr EC50

Desmodesmus subspicatus: 79 mg/L

Invertebrate: 48 Hr EC50 Daphnia magna Straus: >500 mg/L

Additive 2 (Trade Secret)

Algae: 72 Hr EC50 Desmodesmus subspicatus: 8 mg/L

**Bioaccumulation** 

No information available for the product.

**Bioconcentration** 

No information available for the product.

**Biodegradation** 

No information available for the product.

**Persistence** 

No information available for the product.

**Mobility** 

No information available for the product.

Other Information

No additional information is available.

# \* \* \*Section 13 - DISPOSAL CONSIDERATIONS\* \* \*

### **Disposal Methods**

Dispose in accordance with all applicable regulations.

# **Component Waste Information**

There is no applicable waste information for this product's components.

# \* \* \*Section 14 - TRANSPORT INFORMATION\* \* \*

### **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** 

γ-Butyrolactone (96-48-0)
IBC Code: Category Y

# \* \* \*Section 15 - REGULATORY INFORMATION\* \* \*

# **Singapore Regulations**

#### **Component Analysis**

No information was found for the substance(s) in Singapore regulations.



# **Safety Data Sheets**

Product Name: BS4 ink Magenta SDS No. 037-S184555

First issue: 2019/01/11

Revised:

### **Component Analysis - Inventory**

Component	CAS	US	CA	EU	AU	PHIL	JP	KR	CN	NZ
Glycol ether solvents	Trade Secret	Yes	NSL	EIN	No	No	Yes	No	Yes	Yes
γ-Butyrolactone	96-48-0	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Quinacridone series	Trade Secret	Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	Yes
Magenta										
Chlorinated Ethylene-	Trade Secret	Yes	DSL	No	Yes	Yes	Yes	Yes	Yes	Yes
Vinyl Acetate Copolymer										
(CEVA)										
Additive 2	Trade Secret	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	Yes

# \* \* \*Section 16 - OTHER INFORMATION\* \* \*

### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; CAS - Chemical Abstracts Service; CLP - Classification, Labelling and Packaging; EEC - European Economic Community; EIN (EINECS) - European Inventory of Existing Commercial Chemical Substances; ELN (ELINCS) - European List of Notified Chemical Substances; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; IBC Code - International Bulk Chemical Code; Kow - Octanol/water partition coefficient; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; LEL - Lower Explosive Limit; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NTP = National Toxicology Program; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - European Rail Transport; STEL - Short-term Exposure Limit; TWA - Time Weighted Average; UEL - Upper Explosive Limit

### **Disclaimer**

The information set forth in this Safety Data Sheet does not purport to be all-inclusive and should be used only as a guide. While the information and recommendations set forth herein are believed to be accurate, the company makes no warranty regarding such information and recommendations and disclaims all liability from reliance thereon.

End of Sheet 037-S181727