Safety Data Sheets

1. IDENTIFICATION

Product Identifier	BS4 ink Blue Shade Magenta
Product code	BS4-BM-2L / BS4-BM-60
Recommended use and restriction use	INK JET ink
Manufacturer	MIMAKI ENGINEERING CO., LTD. 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 Japan +81-268-64-2413
Importer / Distributor Information	MIMAKI SINGAPORE PTE. LTD. 31 Kaki Bukit Road 3 Singapore 417818 TechLink #02-03 +65-6508-2789
Emergency telephone number	+81-268-64-2281

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Physical and chemical hazards	Flammable liquids Not classified
Health hazards	Acute toxicity - oral Category 4 Serious eye damage/eye irritation Category 2A Specific target organ toxicity (single exposure) Category 2(central nervous system)

GHS LABEL ELEMENTS

Pictograms

Signal Word	Warning
Hazard Statements	H302 Harmful if swallowed H319 Causes serious eye irritation H371 May cause damage to organs(central nervous system)
Precautionary Statements	
Prevention	Do not breathe mist, vapours and spray.(P260) Wash thoroughly after handling.(P264) Do not eat, drink or smoke when using this product(P270) Wear eye protection and face protection.(P280)
Response	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell(P301+P312) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing(P305+P351+P338) IF exposed or concerned: Call a POISON CENTER/doctor(P308+P311) Rinse mouth(P330)

	If eye irritation persists: Get medical advice/attention(P337+P313)
Storage	Store locked up(P405)
Disposal	Dispose of contents/ container to an approved landfill.(P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances or mixtures: Mixtures

Chemical name	Contents	Chemical Formula	CAS RN
Glycol Ethers	60-70%	Unknown	Confidential
.gamma.-Butyrolactone	10-20%	C4H6O2	96-48-0
Diethylene glycol diethyl ether	10-20%	Unknown	112-36-7
2,5,8,11,14-Pentaoxapentadecane	<10%	C8H16O3(OCH3)2	143-24-8
Resin	<5%	Unknown	Confidential
Quinacridone	<5%	Unknown	Confidential
Additives	<5%	Unknown	Confidential

4. FIRST-AID MEASURES

In case of inhalation	Call a doctor if you feel unwell. IF exposed or concerned: Call a doctor.
In case of skin contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice and attention. IF exposed or concerned: Call a doctor.
In case of eye contact	IF IN EYES: 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. IF exposed or concerned: Call a doctor.
In case of ingestion	IF SWALLOWED: Immediately call a doctor. Rinse mouth. IF exposed or concerned: Call a doctor.

5. FIRE-FIGHTING MEASURES

Suitable fire-extinguishing media	Dry chemical, alcohol-resistant foam, CO2, sand. When dust occurs, use dry sand.
Specific hazards arising from the chemical	Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.
Special protective actions for fire fighters	Use goggles in combination with dust mask, and another protections as appropriate to situation.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use goggles in combination with dust mask, and another protections as appropriate to situation. Large spills :Evacuate area. Ensure adequate ventilation.

Environmental precautions	Do not discharge into the drains, surface waters or ground water directly.
Methods and materials for containment and cleaning up	small spill : absorb with material such as non-combustible materialwash thoroughly after handling Large spills: Dike spills and dispose of in safe area.
Prevention Measures for Secondary Accidents	Keep away from sources of ignition and prepare extinguishing media. Risk of slipping. Spilled material forms slippery floor. Do not recklessly walk on the spillage.

7. HANDLING AND STORAGE

Handling	
Technical measures	Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Safe handling advice	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wear eye protection/face protection. Do not breathe dust/fume/gas/mist/vapours/spray.
Storage	
Suitable storage conditions	Store locked up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Individual protection measures	
Respiratory protection	If necessary, wear respiratory protection.
Hand protection	If necessary,wear protective gloves.
Eye protection	Wear eye protection/face protection.
Skin and body protection	If necessary,wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State	Liquid
Color	red
Odor	Slight solvent odor
Odor threshold	No data available
pH	5～7
Melting point	No data available
Boiling point	No data available
Flash point	No data available

Evaporation rate	No data available
Flammability(Solid,Gas)	No data available
Flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	0.97g/cm
Solubility(ies)	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	3.7～3.9 mPa/s @25 ° C

10. STABILITY AND REACTIVITY

Reactivity	No information available
Chemical stability	Stable in general.
Possibility of hazardous reactions	This product may produce toxic gas when heated above decomposition.
Conditions to avoid	No information available
Incompatible materials	No information available
Hazardous decomposition products	No information available

11. TOXICOLOGICAL INFORMATION

Acute toxicity (Oral)	Category 4:96-48-0 (toxicity value = 800mg/kg, source: NITE) Not classified:112-36-7 (toxicity value = 4970mg/kg, source: NITE) No data:143-24-8 (source: None), Confidential (source: None) Calculation result = 1378.4118952mg/kg. Classification result = Category 4.
Acute toxicity (Dermal)	Not classified:96-48-0 (source: NITE) No data:112-36-7 (source: None), 143-24-8 (source: None), Confidential (source: None) Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.
Acute toxicity (Inhalation : Gases)	Does not fall under gas based on GHS definitions.
Acute toxicity (Inhalation : Vapours)	Unable to classify due to insufficient data.
Acute toxicity (Inhalation : dust/mist)	Not classified:96-48-0 (source: NITE) No data:112-36-7 (source: None), 143-24-8 (source: None), Confidential (source: None) Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.
Skin corrosion/ Irritation	Not classified:96-48-0 (source: NITE) No data:112-36-7 (source: None), 143-24-8 (source: None), Confidential (source: None)

	Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.
Serious eye damage/ irritation	Category 2A:112-36-7 (source: NITE), 96-48-0 (source: NITE) No data:143-24-8 (source: None), None (source: None), Confidential (source: None) Sum of Eye category 2A Concentration limit = 10%. Classification result = Category 2A.
Respiratory Sensitization	Unable to classify due to insufficient data.
Skin Sensitization	Unable to classify due to insufficient data.
Germ cell mutagenicity	Not classified:96-48-0 (source: NITE) No data:112-36-7 (source: None), 143-24-8 (source: None), Confidential (source: None) Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.
Carcinogenicity	Unable to classify due to insufficient data.
Reproductive toxicity	Unable to classify due to insufficient data.
Reproductive toxicity, effects on or via lactation	Unable to classify due to insufficient data.
Specific target organ Toxicity - Single Exposure	Category 2:96-48-0 (organ = central nervous system, source: NITE) Category 3:96-48-0 (organ = narcotic effect, source: NITE) No data:112-36-7 (source: None), 143-24-8 (source: None), Confidential (source: None) 96-48-0 >= 10% Classification result = Category 2(central nervous system)
Specific target organ toxicity - Repeated Exposure	Unable to classify due to insufficient data.
Aspiration hazard	Unable to classify due to insufficient data.

12. ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment - Acute Toxicity	Not classified:112-36-7 (source: NITE), 96-48-0 (source: NITE) No data:143-24-8 (source: None), Confidential (source: None) Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.
Hazardous to the Aquatic Environment - Chronic Toxicity	Not classified:112-36-7 (source: NITE), 96-48-0 (source: NITE) No data:143-24-8 (source: None), Confidential (source: None) Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.
Hazardous to the Ozone layer	Unable to classify due to insufficient data.

13. DISPOSAL CONSIDERATIONS

Residual Waste	Before disposal, make the wastes harmless, stabilized, and neutralized, and minimize danger and toxicity of the wastes.

Contaminated Container and Packaging	Dispose of waste in accordance with local,state and federal regulations. Passed to a licensed waste contractor. In case of disposal of empty containers, remove the content thoroughly.

14. TRANSPORT INFORMATION

International regulations

Sea(IMDG)	Not dangerous goods
air(IATA)	Not dangerous goods

15. REGULATORY INFORMATION

No main regulation

Component Analysis – Inventory

.gamma.-Butyrolactone (96-48-0)

TSCA – United States	ENCS – Japan	KECI Annex 1, 2 – Korea	IECSC – China	DSL/NDSL – Canada	PICCS – Philippines	AICS – Australia	EINECS/ELINCS – European Union	TCSI – Taiwan	NZIoC – New Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Diethylene glycol diethyl ether (112-36-7)

TSCA – United States	ENCS – Japan	KECI Annex 1, 2 – Korea	IECSC – China	DSL/NDSL – Canada	PICCS – Philippines	AICS – Australia	EINECS/ELINCS – European Union	TCSI – Taiwan	NZIoC – New Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

2,5,8,11,14-Pentaoxapentadecane (143-24-8)

TSCA – United States	ENCS – Japan	KECI Annex 1, 2 – Korea	IECSC – China	DSL/NDSL – Canada	PICCS – Philippines	AICS – Australia	EINECS/ELINCS – European Union	TCSI – Taiwan	NZIoC – New Zealand
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

16. OTHER INFORMATION

Literature References	NITE GHS EU CLP Regulation, AnnexVI
Other data	The information suggested in this Safety Data Sheet does not comprehend everything and should be adopted only as a guide. The accuracy of the information and recommendations suggested herein are credible. However the company makes no warranty regarding such information and recommendations and disclaims all liability for reliance thereon.