

SDS No. 037-S151087 First issue: 2015/12/17

Revised: 2019/11/01

Safety Data Sheets

Identification

Product Name : CS100 ink Magenta

Order No. : CS100-M-BB

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

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Manufacture

Company Name : Mimaki Engineering Co., Ltd.

: 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN Address

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

Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Category 4

Health Hazards

Eye Damage / Irritation : Category 1 Toxic to Reproduction : Category 1B

: Category 1 (blood, central nervous system, Specific Target Organ Toxicity

(Single Exposure) systemic toxicity)

Specific Target Organ Toxicity : Category 2 (kidneys, hematopoietic system)

(Single Exposure)

Specific Target Organ Toxicity : Category 2(blood, kidneys)

(Repeated Exposure)

Environmental Hazards



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Hazardous to the Aquatic : Category 3

Environment - Acute Hazard

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

H318 Cause serious eye damage

H360 May damage fertility or the unborn child

H370 Causes damage to blood, central nervous system, central nervous system, systemic toxicity

H371 May cause damage to kidneys and hematopoietic system

H373 May cause damage to blood and kidneys through prolonged or repeated exposure.

H402 Harmful to aquatic life

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 heat/sparks/open flames/hot surfaces.-No smoking.

P260 Do not breathe vapor or mist.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P273 Avoid release to the environment.

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

[Response]

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 or doctor/physician.

P305+P310 IF IN EYES: Immediately call a POISON CENTER or doctor/physician.

P314 Get medical advice/attention if you feel unwell.

P370+P378 In case of fire: Use appropriate media for extinction.

[Storage]

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

P405 Store locked up.

[Disposal]

P501 Dispose of contents and container in accordance with local, regional, national and international regulation.



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NFPA Rating (scale 0-4)

Health = 3

Flammability = 2

Instability = 0

Special = None



CANADIAN WHMIS SYMBOLS





3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.	
1	Ethylene glycolbuthyl ether acetate	50-60	112-07-2	
2	Propylene glycolmethyl ether acetate	15-25	108-65-6	
3	Gamma-butyrolactone	15-25	96-48-0	
4	Vinyl chloride / Vinyl acetate copolymer resin	1-10	Trade Secret	
5	Quinacridone Magenta	1-10	Trade Secret	
6	Additives	0.1-5	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 : Flush eyes with plenty of water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Get

immediate medical attention.

Skin Contact : Wash with plenty of soap and water. Take off contaminated clothing

and wash before re-use. Get medical attention if irritation develops.

Ingestion : If swallowed, get medical attention.



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Most Important Symptoms/Effects

Acute : eye damage, blood damage, central nervous system damage,

systemic toxicity damage, kidney damage

: Treat symptomatically and supportively.

Delayed : reproductive effects, blood damage, kidney damage

Indication of Immediate

Medical Attention and

Special Treatment

Needed, If Needed

5. Fire Fighting Measures

Flammable Properties : Flash point 66±1°C (TCC)

Auto Ignition Temperature: Not available

Flammable point: Not available

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

foam

Unsuitable Extinguishing

•

Media

Special Hazards Arising

Hazardous Combustion

from the Chemical

oxides of carbon, oxides of nitrogen

: Combustible liquid and vapor.

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 by-products. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor

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

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.



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Special Protective

Equipment and

Precautions for

Firefighters

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

exposure.

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 release to the environment.

: Eliminate all ignition sources if safe to do so. 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.

Handling and Storage

Precautions for Safe

Handling

: Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. 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 and

eye/face protection. Wash thoroughly after handling. Avoid release to

the environment.

Conditions for Safe Storage, including any

Incompatibilities

: 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.



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8. Exposure Controls / Personal Protection

Exposure Limit Values

No	Chemical Name		TWA	
1	Ethylene glycol monobuthyl ether acetate (112-07-2)	ACGUH	20 ppm TWA	
		NIOSH	5 ppm TWA; 33 mg/m3 TWA	

Component Biological

Limit Values

: There are no biological limit values for the component(s) of this product.

Exposure Controls

Occupational Exposure Controls

Appropriate

Engineering Controls

: Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection

Respiratory

Protection

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



Hand Protection

: Wear appropriate chemical resistant gloves.



Eye Protection



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

Skin Protection

: Wear appropriate chemical resistant clothing.

immediate work area.





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OTHER : Overalls. P.V.C. apron. Barrier cream.

Skin cleansing cream. Eye wash unit.

9. Physical and Chemical Properties

Appearance - Physical State : Liquid

- Color : Magenta

Odor : Solvent odor pH : Not available Boiling Point / Boiling Range : $145\sim209$ °C

Melting Point / Melting Range :<-30 ℃

Decomposition Temperature : Not available

Flash Point : 66 ± 1 °C

Auto ignition temperature : Not available
Flammability (Solid, Gas) : Not applicable
Explosive Properties : Not available
Oxidizing Properties : Not available
Upper / Lower Flammability or : Not available

Explosive Limits

Vapor Pressure $: 0.493 \text{kPa} (20 ^{\circ}\text{C})$ Specific Gravity $: 0.995 \pm 0.01 (25 ^{\circ}\text{C})$ Solubility : Very small amount

Water Solubility : Not available
Partition Coefficient (n-octanol / Water) : Not available

Viscosity $: 4.0 \pm 0.3 \text{ mPa} \cdot \text{s} (25 \text{ }^{\circ}\text{C})$

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



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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, amines

Hazardous : Combustion: oxides of carbon, oxides of nitrogen

Decomposition

11. Toxicological Information

Acute Toxicity : The component(s) of this material have been reviewed in various

Component Analysis -

LD50/LC50

sources and the following selected endpoints are published:

Ethylene glycol monobutyl ether acetate (112-07-2)

Dermal LD50 Rabbit 1480 mg/kg; Oral LD50 Rat 1600 mg/kg

Propylene glycol monomethyl ether acetate (108-65-6)

Dermal LD50 Rabbit >5 g/kg; Oral LD50 Rat 8532 mg/kg

 γ -Butyrolactone (96-48-0)

Inhalation LC50 Rat >5100 mg/m3 4 h; Oral LD50 Rat 1540 mg/kg

Information on Likely Routes of Exposure

Inhalation : irritation, chest pain, difficulty breathing, headache, hearing loss,

nausea, drowsiness, dizziness, loss of coordination, unconsciousness, cough, reproductive effects, kidney damage, systemic toxicity damage

Ingestion : irritation, nausea, headache, drowsiness, dizziness, loss of

coordination, unconsciousness, coma, sore throat, vomiting, stomach

pain

Skin Contact : irritation, nausea, headache, drowsiness, dizziness, unconsciousness,

coma

Eye Contact : eye damage

Immediate Effects : eye damage, blood damage, central nervous system damage, systemic

toxicity damage, kidney damage

Delayed Effects : reproductive effects, blood damage, kidney damage

Medical Conditions : respiratory disorders

Aggravated by Exposure

Irritation/Corrosivity : eye damage

Data



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Respiratory : No information available for the product.

Sensitization

Dermal Sensitization : No information available for the product. Germ Cell Mutagenicity : No information available for the product.

Carcinogenicity : Component Carcinogenicity

Ethylene glycol monobutyl ether acetate (112-07-2)

ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown
ACGIH.	Relevance to Humans
DFG:	Category 4 (no significant contribution to human
Dr.G.	cancer)

 γ -Butyrolactone (96-48-0)

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

Vinyl chloride / Vinyl acetate copolymer resin(Proprietary)

: blood, central nervous system, systemic toxicity, kidneys,

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

Reproductive Toxicity : Available data characterizes components of this product as

reproductive hazards.

Specific Target Organ

hematopoietic system

Toxicity - Single

Exposure

Specific Target Organ

Toxicity - Repeated

Exposure

Aspiration Hazard : No information available for the product.

: blood, kidneys

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.

: Harmful to aquatic life. Ecotoxicity

Component Analysis -

Ethylene glycol monobutyl ether acetate (112-07-2)

Aquatic Toxicity

Algae:	72 Hr EC50 Desmodesmus subspicatus: >500 mg/L
Invertebrate:	48 Hr EC50 Daphnia magna: 37 mg/L



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Propylene glycol monomethyl ether acetate (108-65-6)

Fish:	96 Hr LC50 Pimephales promelas: 161 mg/L [static]
Invertebrate:	48 Hr EC50 Daphnia magna: >500 mg/L

 γ -Butyrolactone (96-48-0)

Alma a'	72 Hr EC50 Desmodesmus subspicatus: 360 mg/L;		
Algae:	96 Hr EC50 Desmodesmus subspicatus: 79 mg/L		
Invertebrate:	48 Hr EC50 Daphnia magna Straus: >500 mg/L		

Persistence and

: Not available

Degradability

Bioaccumulation : Not available
Mobility : Not available

Other Toxicity : Not available

13. Disposal Considerations

: Comply with all USA, national and local regulations.

Do not dump this product into sewers, on the ground or into any body

of water.

Disposal Methods : Dispose in accordance with all applicable regulations.

Component Waste : The U.S. EPA has not published waste numbers for this product's

Numbers components.

Disposal of : Empty containers may contain product residue. Dispose in

Contaminated accordance with all applicable regulations.

Packaging

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

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.



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Marine Pollutant Ethylene glycol monobutyl ether acetate (112-07-2)

IBC Code: Category Y

Propylene glycol monomethyl ether acetate (108-65-6)

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

TDG Information : Not regulated as dangerous goods for transport.

US DOT Information : Not regulated as dangerous goods for transport. *1

*1 Class combustible liquid (NA1993), Packing group III for quantities of 450 liters (119 gallons) or more; not regulated for smaller quantities

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 311/312 (40 CFR

370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4),

TSCA 12(b), or require an OSHA process safety plan.

SARA TitleIII : Acute Health: Yes

Section 311/312 Chronic Health: Yes

Fire: Yes

Pressure: No Reactive: No

U.S. State Regulations : The following components appear on one or more of the following state

hazardous substances lists:

Component	CAS No.	CA	MA	MN	NJ	PA
Ethylene glycol monobutyl	112-07-2	No	No	No	Yes	No
ether acetate	112 07 2					

Not regulated under California Proposition 65

: WHMIS CLASSIFICATION: B3, D2A, D2B. Canada

Canadian WHMIS : None of the product component(s) are listed on the Ingredients

Ingredient Disclosure Disclosure List (IDL).

List (IDL)



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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; LEL - Lower Explosive Limit; LOLI - List Of LIstsTM - 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

Other Information

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