

# Safety Data Sheets

## 1. Identification

Product Name : CS250 ink Magenta  
Order No. : CS250-M-BA  
General Use : Ink for ink jet printer  
Product Description : Solvent pigment ink  
SDS Number : 037-S295561  
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 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

## 2. Hazards Identification

### [HCS Classification]

#### Physical Hazards

Flammable Liquids : Category 4

#### Health Hazards

Serious Eye Damage / Irritation : Category 2A

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

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

### [HCS Label Elements]

#### Symbol



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Signal Word

Warning

Hazard Statements

H227 Combustible liquid.

H319 Causes serious eye irritation.

H371 May cause damage to organs (central nervous system).

Precautionary Statements

[Prevention]

P210 Keep away from heat/sparks/open flames/hot surfaces.-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/protective clothing/eye protection/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.

P337+P313 If eye irritation persists: Get medical advice/attention.

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/container in accordance with

local/regional/national/international regulation (to be specified).

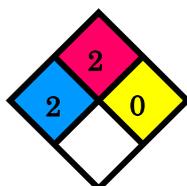
NFPA Rating (scale 0 – 4)

Health = 2

Flammability = 2

Instability = 0

Special =



CANADIAN WHMIS SYMBOLS : B3 , D2A , D2B



### 3. Composition / Information on Ingredients

| No | Chemical Name         | Wt%   | CAS No.      |
|----|-----------------------|-------|--------------|
| 1  | Glycol ether solvents | 70-80 | Trade Secret |

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|   |   |       |              |
|---|---|-------|--------------|
| 2 | $\gamma$ -Butyrolactone                             | 10-20 | 96-48-0      |
| 3 | Quinacridone series Magenta                         | 1-10  | Trade Secret |
| 4 | Chlorinated Ethylene-Vinyl Acetate Copolymer (CEVA) | 1-10  | Trade Secret |
| 5 | Acrylic Type Compound                               | 1-10  | Trade Secret |
| 6 | Azo nickel complex pigment                          | 0.1-5 | Trade Secret |
| 7 | Additive 1  | 0.1-5 | Trade Secret |
| 8 | Additive 2  | 0.1-5 | Trade Secret |

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

### 4. First Aid Measures

#### Description of Necessary 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. If irritation or pain persists after fifteen minutes of eye irrigation, seek 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.

#### Most Important Symptoms/Effects

Acute : eye irritation, central nervous system damage

Delayed : No information on significant adverse effects.

Indication of Immediate : Treat symptomatically and supportively.

Medical Attention and

Special Treatment

Needed, If Needed

### 5. Fire Fighting Measures

Flammable Properties : Flash Point: 70 °C  
Auto Ignition Temperature: 169 °C (Glycol ether type solvent)

Flammable Point: 2.5vol%-33.0Vol% (Glycol ether type solvent)

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

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

Media

Special Hazards Arising from the Chemical : Combustible liquid and vapor. Irritating fumes and gases may be released upon thermal processing or during combustion.

Hazardous Combustion Products : **Combustion:** oxides of carbon, oxides of nitrogen.

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 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.

Special Protective Equipment and Precautions for Firefighters : Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Precautions for

Firefighters

### 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures : Wear personal protective clothing and equipment, see Section 8.

Protective Equipment

and Emergency

Procedures

Methods and Materials for Containment and Cleaning Up : Eliminate all ignition sources if safe to do so. Stop leak if possible without personal risk. Reduce vapors with water spray.

for Containment and

Cleaning Up

**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.

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### 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, 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. Incompatible materials include acids, bases, oxidizing materials, and halogens. |

### 8. Exposure Controls / Personal Protection

|                                   |   |
|-----------------------------------|---|
| Exposure Limit Values             | : ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components. |
| 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 | : Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits. |
|----------------------------------|---|

#### Individual Protection Measures, such as Personal Protective Equipment

|                        |  |
|------------------------|--|
| Respiratory Protection | : Consult with a health and safety professional for specific respirators appropriate for your use. |
|------------------------|--|



|       |   |
|-------|---|
| Glove | : Wear appropriate chemical resistant gloves. |
|-------|---|

#### Recommendations



|           |  |
|-----------|--|
| Eye /Face | : Wear splash resistant safety goggles with a faceshield. Provide an |
|-----------|--|

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Protection



Safety Glasses

emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection



Protective Apron

: Wear appropriate chemical resistant clothing.

Environmental Exposure Controls

: Not Available

### 9. Physical and Chemical Properties

|  |                  |  |
|--|------------------|--|
| Appearance                                     | - Physical State | : liquid   |
|  | - Color          | : red  |
| Odor   |                  | : solvent odor                                     |
| pH   |                  | : Not Applicable                                   |
| Boiling Point / Boiling Range                  |                  | : Not available                                    |
| Melting Point / Melting Range                  |                  | : Not available                                    |
| Flash Point                                    |                  | : 70°C   |
| Auto ignition temperature                      |                  | : 169 °C (Glycol ether type solvent)               |
| Flammability (Solid, Gas)                      |                  | : Not available                                    |
| Upper / Lower Flammability or Explosive Limits |                  | : 2.5 vol %-33.0 vol % (Glycol ether type solvent) |
| Vapor Pressure                                 |                  | : <=0.1 kPa (20°C) (Glycol ether type solvent)     |
| Density  |                  | : 0.973 g/cm <sup>3</sup>                          |
| Water Solubility                               |                  | : Not available                                    |
| Viscosity                                      |                  | : 4.0-4.5 mPa/s @25 °C                             |
| Vapor Density                                  |                  | : Not available                                    |
| Evaporation Rate                               |                  | : Not available                                    |

### 10. Stability and Reactivity

|                     |   |
|---------------------|---|
| Reactivity          | : No reactivity hazard is expected.   |
| Conditions to Avoid | : Avoid flames, sparks, and other sources of ignition. Avoid contact with incompatible materials. |
| Stability           | : Stable under normal conditions of use. Avoid contact with                                       |

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|                        |   |
|------------------------|---|
|                        | incompatible materials.                                   |
| Materials to Avoid     | : acids, bases, oxidizing materials, halogens             |
| Hazardous Reactions /  | : <b>Combustion:</b> oxides of carbon, oxides of nitrogen |
| Decomposition Products |   |

### 11. Toxicological Information

#### Acute 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/m<sup>3</sup> 4 h

##### 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

#### Information on Likely Routes of Exposure

|  |  |
|--|--|
| Inhalation                                   | : irritation, headache, dizziness, drowsiness.   |
| Ingestion                                    | : vomiting, nausea.                              |
| Skin Contact                                 | : No information available for the product.      |
| Eye Contact                                  | : irritation.                                    |
| Immediate Effects                            | : eye irritation, central nervous system damage. |
| Delayed Effects                              | : No information on significant adverse effects. |
| Medical Conditions Aggravated<br>by Exposure | : No information available for the product.      |
| Irritation/Corrosivity Data                  | : eye irritation.                                |
| Respiratory Sensitization                    | : No information available for the product.      |
| Dermal Sensitization                         | : No information available for the product.      |
| Germ Cell Mutagenicity                       | : 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

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classifiable))

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

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

### Reproductive Toxicity

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.

## 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 classified.

### Component Analysis - Aquatic Toxicity

#### $\gamma$ -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

Mobility : No information available for the product.

Persistence and : No information available for the product.

Degradability

Bioaccumulative : No information available for the product.

Potential

Other Adverse Effects : No additional information is available.

## 13. Disposal Considerations

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.

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Disposal of Contaminated Packaging : Empty containers may contain product residue. Dispose in accordance with all applicable regulations.

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.

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 :  $\gamma$ -Butyrolactone (96-48-0)

**IBC Code:** Category Y

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

TDG Information : Not regulated as dangerous goods for transport.

\*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 Regulations** : None of this products components are listed under SARA Sections 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 311/312** : **Acute Health:** Yes **Chronic Health:** No **Fire:** Yes **Pressure:** No **Reactive:** No

**California Proposition 65** : **WARNING:**



This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Canada** : WHMIS CLASSIFICATION: B3, D2A, D2B.

**Canadian WHMIS Ingredient Disclosure List (IDL)**

: None of the product component(s) are listed on the Ingredients Disclosure List (IDL).

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## Chemical Inventory Listings

### 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 |
| $\gamma$ -Butyrolactone                             | 96-48-0      | Yes | DSL | EIN | Yes | Yes  | Yes | Yes | Yes | Yes |
| Additive 2  | Trade Secret | Yes | DSL | EIN | Yes | Yes  | Yes | Yes | Yes | Yes |
| Quinacridone series Magenta                         | Trade Secret | Yes | DSL | EIN | Yes | Yes  | Yes | Yes | Yes | Yes |
| Chlorinated Ethylene-Vinyl Acetate Copolymer (CEVA) | Trade Secret | Yes | DSL | No  | Yes | Yes  | Yes | Yes | Yes | Yes |

## 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

### Other Information

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