



Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier Product Name : Ink Cartridge (Cyan)
 Product Code : IP5-303
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 Inkjet Ink
- 1.3 Details of the supplier of the safety data sheet
- | | |
|-----------------------|--|
| Manufacturer's Name : | Seiko I Infotech Inc.
Quality Assurance Department |
| Address : | 563, Takatsuka-Shinden, Matsudo-shi, Chiba,
270-2222, Japan |
| Telephone Number : | +81-47-391-2349 |
- 1.4 Emergency telephone: +81-47-391-2349 (JST 9:00-17:00)
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2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture
- <1999/45/EC >
- | | |
|-----------------|----------------------|
| Classification: | Harmful preparation. |
|-----------------|----------------------|
- 2.2 Label elements
- <1999/45/EC >
- | | |
|---------------------|--|
| Symbols of danger : | Xn |
| R-phrases: | R20/21 Harmful by inhalation and in contact with skin. |
| S-phrases: | S24 Avoid contact with skin |
- 2.3 Other hazards
- | | |
|----------------------------------|--|
| Routes of entry | Inhalation, Ingestion, and Skin |
| Harm to health | Contact with eyes may result in irritation.
Contact with skin may result in irritation.
Ingestion may result in gastric disturbance.
Prolonged or repeated inhalation of vapor may cause
headaches, dizziness or nausea. |
| Harm to ecological | No information available. |
| Risk of combustion and explosion | The vapor is heavier than air. Vapors or gases may ignite
at distant ignition sources and flash back. Vapor/air mixtures is
explosive. |

3. COMPOSITION / INFORMATION ON INGREDIENTS

Main Ingredients	Content(%)	CAS No.	ACGIH	Symbols & R-phrase
Ethylene glycol monobutyl ether acetate	75-85	112-07-2	TWA20ppm	Xn;R20/21
Gamma-Butyrolactone	1-10	96-48-0	Not applicable	None
Pigment	1-10	147-14-8	Not applicable	None
Polymer	1-10	Listed	Not applicable	None
Dispersant	0.1-5	Listed	Not applicable	None

4. FIRST-AID MEASURES

4.1 Description of first aid measures

- Inhalation : Move to fresh air area. Call a physician
- Skin Contact : In case of contact, immediately wash skin with soap and plenty of water. If irritation develops, get medical attention. Remove contaminated clothing and shoes.
- Eye Contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If irritation develops, get medical attention.
- Ingestion : If swallowed, seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

See Section 4.1.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Dry chemicals, carbon dioxide, water sprinkling, and alcohol-resistance foam extinguishing agent

Unsuitable Extinguishing Media

Jet water

5.2 Special hazards arising from the substance or mixture

Specific Hazards Irritant, corrosive and/or toxic gas may be generated by a fire. Container may explode when heated

5.3 Advice for firefighters

Specific Fire Fighting Carry out fire-fighting at the safe and effective distance from the fire, or use a unattended hose-holding unit, or a nozzle with a monitor.

Protection of Fire Fighters

In fire-extinguishing activity, wear an appropriate air breathing apparatus and full protective clothing for chemicals.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not touch the leakage, and do not walk on it. Prohibit unauthorized entry into the area. Wear appropriate personal protective equipment (Refer to "Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION" and avoid inhalation or contact with eyes and skin. If not wearing an appropriate personal protective clothing, do not touch the damaged leakage.

6.2 Environmental precautions

Do not release into the environment. Pay attention not to cause the influence on the environment by discharging into rivers.

6.3 Methods and material for containment and cleaning up

Decontamination/Absorption/Sweeping/Vacuuming/Neutralization

In case of small quantity, absorb the leakage with dry soil, sand, and incombustible-material or collect it into a container that can be covered tightly for later disposal. In case of small quantity, use clean and anti-static tools to collect absorbed materials. In case of large quantity, prevent the spills from spreading with embankment to lead them to a safe place for collection. Collect the material into a disposal container by sucking up or sweeping up.

Methods and Equipment for Containment and Cleaning up

All devices to handle spills must be grounded. If not dangerous, stop the leak. Small amount: Prevent the material from wetting by rain. Cover with dry soil, dry sand, or non-combustibles and store under a plastic sheet cover to avoid scattering and wetting. Cleansing the contaminated area thoroughly with water after removal.

Prevention Measures for Secondary Accidents.

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area) Prevent flowing into drain, sewage, basement, and closed area.

6.4. Reference to other sections

See Section 8 and 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Technical Measures

Provide ventilation system and Use necessary personal protective equipment as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION." Handling

Local and General Ventilation

Provide local ventilations and a full ventilation system as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."

Precautions for Safe Handling

Prohibit the use of heat, sparks, and fire in the surrounding area.

Wash hands thoroughly after handling.

Avoid swallowing.

Avoid the contact with the skin.

Prevents Handling of Incompatible Substances or Mixtures

Refer to "10. STABILITY AND REACTIVITY"

7.2 Conditions for safe storage, including any incompatibilities

Do not handle or store near an open flame, sources of heat or sources of ignition. Use only in the well-ventilated areas and wear proper protective equipment to avoid skin contact, eye contact and vapor inhalation.

7.3 Specific end use(s)

Incompatible Substances or Mixtures

Refer to "10. STABILITY AND REACTIVITY"

Storage Conditions

Store away from oxidants.

Have containers keep away from direct sunlight and heat.

Store in a well-ventilated and cool place keeping container tightly closed.

Material Used in Packaging/Containers

Use containers prescribed in the "UN Transport Regulations."

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Engineering Controls

Use Local exhaust ventilation.

Personal Protective Equipment

Respiratory Protection

Respirator to avoid breathing organic solvent vapor.

Hand Protection

Wear chemical resistant gloves.

Eye Protection

Use safety glasses or goggles.

Skin and Body Protection

Wear working clothes.

Specific Hygiene Measures

Wash hands thoroughly after handling.

8.2 Exposure controls

Level/Exposure Limits

	ACGIH (TWA)
Ethylene glycol monobutyl ether acetate	20ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	
Physical State	Liquid
Color	Blue
Odor	Solvent odor
pH	No Data.
Flash point	75.0°C (Seta closed cup)
Flammable limit	0.88(93°C) - 8.54(135°C)vol% (Ethylene glycol monobutyl ether acetate)
Specific gravity	0.96-1.00g/cm ³ (25°C)
Vapor density	No information available.
Solubility in water	1.1wt%(20°C) (Ethylene glycolmonobutyl ether acetate) Easily soluble (Gamma -Butyrolactone)

9.2 Other information

No information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable

10.2 Chemical stability

Reacts with acids and oxidizing agents

10.3 Possibility of hazardous reactions

Will not occur

10.4 Conditions to avoid

Extremely high temperature

10.5 Incompatible materials

Acids and oxidizing agents

10.6. Hazardous decomposition products

No information available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity:

Inhalation: No data available

Ingestion: Ethylene glycol monobutyl ether acetate
LD50:2400mg/kg(rat)

Gamma-Butyrolactone
LD50: 1580mg/kg(rat)

Eyes: No data available

Skin: Ethylene glycol monobutyl ether acetate
LD50:1500mg/kg(rabbit)

Gamma-Butyrolactone
LD50:>5000mg/kg(marmot)

Sensitization: No data available

Mutagenicity: No data available

Reproductive Toxicity: No data available

Carcinogenicity: No data available.

Other Information: None

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential	No information available.
12.4 Mobility in soil	No information available.
12.5 Results of PBT and vPvB assessment	
PBT	Not applicable.
vPvB	Not applicable.
12.6 Other adverse effects	
Environmental Hazards	This product is insoluble in water. Treat using the best available techniques to avoid environmental contamination.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Comply with national and local environmental regulations. Do not dump this product into sewers, on the ground or into any body of water.
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14. TRANSPORT INFORMATION

14.1 UN number	Not applicable.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	Marine Pollutant: Not applicable
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable. Follow all regulations in your country.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.	<p>All ingredients in this product are listed on the EINECS or are exempt from listing. REACH pre-registration of substances constituting this product are completed to the extent obliged by the REACH regulation by either the Only Representative appointed. The importer of the Products is hereby regarded as a downstream user.</p> <p>This data sheet was prepared in accordance with Regulation(EC) No1907/2006. Follow all regulations in your country.</p>
15.2 Chemical safety assessment	No information available.

16. OTHER INFORMATION

Relevant phrases

R20/21 Harmful by inhalation and in contact with skin

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