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## Material Safety Data Sheet

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : INK CARTRIDGE  
Product Code : IP5-303 (CYAN)  
-Application model :IP-5620/IP-5520  
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  
Fax Number : +81-47-391-0952

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### 2. HAZARDS IDENTIFICATION

Classification: Harmful preparation.  
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 of ecological: No information available.  
Risk of combustion and explosion: The vapor is heavier than air. Vapor or gases may ignite at distant ignition sources and flash back. Vapor/air mixtures are explosive.

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### 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	Not applicable
Polymer	1-10	Listed	Not applicable	Not applicable
Dispersant	0.1-5	Listed	Not applicable	Not applicable
Pigment	1-10	147-14-8	Not established	Not applicable

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### 4. FIRST-AID MEASURES

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.  
Inhalation : Move to fresh air area. Call a physician  
Ingestion : If swallowed, seek medical advice immediately.



Flammable limit:	Lower 0.8 vol% (Ethylene glycol monobutyl ether acetate) Upper 8.5 vol% (Ethylene glycol monobutyl ether acetate)
Specific gravity:	0.96–1.00 g/cm <sup>3</sup> (25°C)
Vapor pressure:	< 40 Pa (20°C) (Ethylene glycol monobutyl ether acetate)
Vapor density:	> 3.0 (Gamma-Butyrolactone) (Air=1)
Solubility in water:	
in Water:	1.1 wt% (20°C) (Ethylene glycol monobutyl ether acetate) Easily soluble (Gamma-Butyrolactone)
Water in:	1.6 wt% (20°C) (Ethylene glycol monobutyl ether acetate)

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## 10. STABILITY AND REACTIVITY

Stability :	Stable
Materials to Avoid :	Acids and oxidizing agents
Conditions to Avoid :	Extremely high temperature
Hazardous reactions:	Not occur
Decomposition Products :	No data

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## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Ethylene glycol monobutyl ether acetate:	Oral Toxicity	LD50 (rat) 2,400 mg/kg
	Skin Toxicity	LD50 (rabbit) 1,500 mg/kg
Gamma-Butyrolactone:	Oral Toxicity	LD50 (rat) 1,580 mg/kg
	Skin Toxicity	LD50 (marmot) > 5,000 mg/kg
Carcinogenicity:	Ethylene glycol monobutyl ether acetate : No information available. Gamma-Butyrolactone: The material of IARC rank {1;2A;2B}: There is not corresponding material.	
Mutagenicity:	No information available.	
Other toxicity information:	No information available.	

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## 12. ECOLOGICAL INFORMATION

Environmental fate and distribution :	This product is insoluble in water .Treat using the best available techniques to avoid environmental contamination.
Toxicity:	No information available.
Effect on effluent treatment:	No data.

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## 13. DISPOSAL CONSIDERATIONS

Comply with all federal, state and local regulations.  
Do not dump this product into sewers, on the ground or into any body of water.

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## 14. TRANSPORT INFORMATION

UN CLASS:	Not applicable
UN NUMBER:	Not applicable
PACKING GROUP:	Not applicable
PROPER SHIPPING NAME:	Ink
Classification:	This product is not classified as hazardous for transport.

Follow all regulations in your country.

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## 15. REGULATORY INFORMATION

All ingredients in this product are listed on the EINECS or are exempt from listing.

Classification: Harmful preparation.

Indication of danger: Harmful

Symbol of danger: Xn

R-phrase: R20/21 Harmful by inhalation and in contact with skin.

S-phrase S24 Avoid contact with skin.

Follow all regulation in your country.

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## 16. OTHER INFORMATION

This data sheet was prepared in accordance with directive 2001/58/EEC

The above information relates only to the safety of the product designated, based on our current state of knowledge. No responsibility is accepted for any errors or omissions.

### History

Date of issue: 27 June, 2011

Version: 1