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## Material Safety Data Sheet

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Ink Pack (Black)/Sub Cartridge (Black)  
Product Code : IP7-104/IP-114  
-Application model :IP-7900/IP-7700  
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  | 20ppm                    | Xn;R20/21          |
| Gamma-Butyrolactone                     | 1-10       | 96-48-0   | Not applicable           | None               |
| Polymer                                 | 1-10       | Listed    | Not applicable           | Not applicable     |
| Dispersant                              | 0.1-5      | Listed    | Not applicable           | Not applicable     |
| Carbon black                            | 1-10       | 1333-86-4 | TWA 3.5mg/m <sup>3</sup> | 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.



|                            |  |
|----------------------------|--|
| Auto ignition temperature: | >340°C(Ethylene glycol monobutyl ether acetate)  |
| Flammable limit:           | Lower 0.8vol%(Ethylene glycol monobutyl ether acetate)<br>Upper 8.5vol%(Ethylene glycol monobutyl ether acetate) |
| Specific gravity:          | 0.96–1.00g/cm <sup>3</sup> (25°C)  |
| Vapor pressure:            | <40Pa(20°C)(Ethylene glycol monobutyl ether acetate)   |
| Vapor density:             | >3.0(Gamma-Butyrolactone)(Air=1)   |
| Solubility in water:       |  |
| in Water:                  | 1.1wt%(20°C)(Ethylene glycol monobutyl ether acetate) Easily soluble<br>(Gamma-Butyrolactone)                    |
| Water in:                  | 1.6wt%(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) 2,400mg/kg    |
|  | Skin Toxicity | LD50(rabbit) 1,500mg/kg |
| Gamma-Butyrolactone:                     | Oral Toxicity | LD50(rat) 1,580mg/kg    |
|  | Skin Toxicity | LD50(marmot)>5,000mg/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.

Carbon Black is classified as substance which is possibly carcinogenic to humans (IARC Group 2B),Possible cancer hazard.

### 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.

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: 30-7-2008

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