Date of Issue: 20, September, 2012

SDS No.: Q54-2110



# Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE

COMPANY/UNDERTAKING

1.1 Product identifier Product Name : Ink Cartridge(Black)

Product Code: IP5-304

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)

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

S-phrase: 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
Carbon Black	1-10	1333-86-4	TWA 3,5mg/m <sup>3</sup>	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 acontainer 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)

Imcompatible 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."

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# 7.1 Precautions for safe handling

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# 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

Ware 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	
Carbon black	3.5mg/m <sup>3</sup>	

#### 9. PHYSICAL AND CHEMICAL PROPERTIES.

# 9.1 Information on basic physical and chemical properties

Appearance

Ha

Physical State Liquid
Color Black
Odor Solvent odor
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/cm³ (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:
Mutagenicity:
Reproductive Toxicity:
Carcinogenicity:
No data available
No data available
No data available
Carbon black

IARC Group 2B

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.

# 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.

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.

This data sheet was prepared in accordance with

Regulation(EC) No1907/2006.

Follow all regulations in your country.

# 15.2 Chemical safety assessment No information available.

# 16. OTHER INFORMATION

Relevant phrases

R20/21 Harmful by inhalation and in contact with

skin

Version: 2