

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING         1.1 Product identifier       Product Name : Ink Pack /Sub Cartridge (Yellow) Product Code : IP7-101/111         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       S2/4 Avoid contact with skin         <1999/45/EC > Symbols of danger :       Xn R-phrase:         Routes of entry       Inhalation, Ingestion, and Skin         Harm to health       Contact with eyes 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 i at distant ignition sources and flash back. Vapor/air or explosive.				
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		volosion		

# 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	Listed	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 ME	
6.1 Personal precautions, protective	ve 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 conta	
Decontamination/Absorpti	ion/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
Mathada and Equipment	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	
	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 sectior	
	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

personal protective equipment as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."Handling

Local and General Ventilati	-
	Provide local ventilations and a full ventilation ystem as described in "8. EXPOSURE CONTROLS
Δ	ND PERSONAL PROTECTION."
Precautions for Safe Handli	
	Prohibit the use of heat, sparks, and fire in the
	urrounding area.
	Vash hands thoroughly after handling.
	void swallowing.
	void the contact with the skin.
	patible Substances or Mixtures
	Refer to "10. STABILITY AND REACTIVITY"
7.2 Conditions for safe storage, inclu	Do not handle or store near an open flame, sources
	f heat or sources of ignition. Use only in the
	vell-ventilated areas and wear proper protective
	quipment to avoid skin contact, eye contact and
	apor inhalation.
7.3 Specific end use(s)	
Imcompatible Substances of	
	Refer to "10. STABILITY AND REACTIVITY"
Storage Conditions	Otara avera france avidante
	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	
	Use containers prescribed in the "UN Transport
	Regulations."
8. EXPOSURE CONTROLS/PER 8.1 Control parameters	SUNAL PRUTECTION

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

9. PHYSICAL AND CHEMICAL PROPERTIES 9.1 Information on basic physical and chemical properties				
Appearance				
Physical State	Liquid			
Color	Yellow			
Odor	Solvent odor			
pН	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 <sup>3</sup> (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 REACTIVI	TY			
10.1 Reactivity	Stable			
10.2 Chemical stability	Stable			
10.2 Onernical stability	Reacts with acids and oxidizing agents			
10.3 Possibility of hazardous react				
	Will not occur			
10.4 Conditions to avoid				
	Extremely high temperature			
10.5 Incompatible materials				
· · · · · · · · · · · · · · · · · · ·	Acids and oxidizing agents			
10.6. Hazardous decomposition pr				
	No information available			
11. TOXICOLOGICAL INFORM				
11.1 Information on toxicological e				
Acute Toxicity:				
Inhalation:	No data available			
	glycol monobutyl ether acetate			
	LD50:2400mg/kg(rat)			
Gamma	-Butyrolactone			
	LD50: 1580mg/kg(rat)			
Eyes:	No data available			
	e glycol monobutyl ether acetate			
	ĽĎ50:1500mg/kg(marmot)			
Gamma	-Butyrolactone			
	LD50>5000mg/kg(rabbit)			
Sensitization:	No data available			
0,	No data available			
	No data available			
0,	No data available.			
Other Information:	None			

ION			
No information available.			
/ No information available.			
No information available.			
No information qualleble			
No information available.			
Not applicable.			
Not applicable.			
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.			
NC			
Not applicable.			
Not applicable.			
Not applicable.			
Not applicable.			
Marina Dallutant: Nat applicable			
Marine Pollutant: Not applicable			
Not applicable. 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.

15.2 Chemical safety assessment		This data sheet was prepared in accordance with Regulation(EC) No1907/2006. Follow all regulations in your country.			
		No infor	mation available.		
16. OTHI	ER INFORMATION Relevant phrases	R20/21 skin	Harmful by inhalation and in contact with		
Version:	2				



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Ethylene glycol monobutyl ether acetate	85-95	112-07-2	TWA20ppm	Xn;R20/21	
Pigment	1-10	Listed	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 Fighte	rs
	In fire-extinguishing activity, wear an appropriate air breathing apparatus and full protective clothing for

chemicals.		
6. ACCIDENTAL RELEASE MEA 6.1 Personal precautions, protective	SURES 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		
6.2 Matheda and matarial far contain	Do not release into the environment. Pay attention not to cause the influence on the environment by discharging into rivers.	
	/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. 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 Se		
6.4. Reference to other sections	See Section 8 and 13	
<ul> <li>7. HANDLING AND STORAGE</li> <li>7.1 Precautions for safe handling Technical Measures</li> </ul>		

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

Local and General Ventilation

AND PERSONAL PROT Precautions for Safe Handling Prohibit the use of heat,	8. EXPOSURE CONTROLS "ECTION."
of heat or sources of ign well-ventilated areas and	e skin. Mixtures AND REACTIVITY" ies ear an open flame, sources ition. Use only in the
7.3 Specific end use(s)	
Imcompatible Substances or Mixtures	
Refer to "10. STABILIT) Storage Conditions	Y AND REACTIVITY"
Store away from oxidan Have containers keep a heat. Store in a well-ventilated	way from direct sunlight and d and cool place keeping
container tightly closed. Material Used in Packaging/Containers Use containers prescrib Regulations."	
8. EXPOSURE CONTROLS/PERSONAL PROTECTIO	DN
8.1 Control parameters	
Engineering Controls Use Local exhaust ventil	lation.
Personal Protective Equipment	
Respiratory Protection Respirator to avoid brea	athing organic solvent
Respirator to avoid brea vapor.	atting organic solvent
Hand Protection	
Ware chemical resistant Eye Protection	t gloves.
Use safety glasses or g	oggles.
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 Color Odor pH Flash point Flammable limit Specific gravity Vapor density Solubility in water	Liquid Red Solvent odor No Data. 73.0°C (Seta closed cup) 0.88(93°C) - 8.54(135°C)vol% (Ethylene glycol monobutyl ether acetate) 0.96-1.00g/cm <sup>3</sup> (25°C ) No information available. 1.1wt%(20° C) (Ethylene glycolmonobutyl ether acetate)
9.2 Other information	No information available.
10. STABILITY AND REACTIV 10.1 Reactivity	ÎTY
10.2 Chemical stability	Stable
10.3 Possibility of hazardous read	
10.4 Conditions to avoid	Will not occur Extremely high temperature
10.5 Incompatible materials	Acids and oxidizing agents
10.6. Hazardous decomposition p	
11. TOXICOLOGICAL INFORM 11.1 Information on toxicological e	
Acute Toxicity: Inhalation: Ingestion: Ethylen	No data available e glycol monobutyl ether acetate
Eyes:	LD50:2400mg/kg(rat) No data available e glycol monobutyl ether acetate
Sensitization: Mutagenicity:	LD50:1500mg/kg(rabbit) No data available No data available
Reproductive Toxicity: Carcinogenicity:	No data available No data available No data available.
Other Information:	None
12. ECOLOGICAL INFORMAT 12.1 Toxicity	
12.2 Persistence and degradabilit	
12.2 Disassumulative notantial	No information available.

No information available.

No information available.

12.3 Bioaccumulative potential

12.5 Results of PBT and vPvB assessment

12.4 Mobility in soil

PBT vPvB 12.6 Other adverse effects	Not applicable. Not applicable.
Environmental Hazards	This product is insoluble in water. Treat using the best available techniques to avoid environmental contamination.
13. DISPOSAL CONSIDERATI 13.1 Waste treatment methods	ONS
	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	ON
14.2 UN proper shipping name	Not applicable.
	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	
14.7 Transport in bulk according to	Not applicable. o 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 e	environmental	regulations/le	gislation	specific fo	r the sub	ostance
or mixt	ure.						

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.
45.2 Chamical actaty accomment	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	



1. IDENTIFICATION OF THE S	SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1 Product identifier	Product Name : Ink Pack /Sub Cartridge(Cyan) Product Code : IP7-103/113		
1.2 Relevant identified uses of the	e substance or mixture and uses advised against		
	Inkjet Ink		
1.3 Details of the supplier of the s	afety 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 substanc <1999/45/EC >			
Classification:	Harmful preparation.		
2.2 Label elements			
<1999/45/EC >			
Symbols of danger : R-phrase: S-phrase:	Xn R20/21 Harmful by inhalation and in contact with ski 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			
	The vapor is heavier than air. Vapors or gases may a at distant ignition sources and flash back. Vapor/air 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 ME	
6.1 Personal precautions, protectiv	ve 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 conta	
Decontamination/Absorpti	ion/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
Mathada and Equipment	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	
	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 sectior	
	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

personal protective equipment as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."Handling

	tion Provide local ventilations and a full ventilation system as described in "8. EXPOSURE CONTROLS AND PERSONAL PROTECTION."
Precautions for Safe Hand	
	mpatible Substances or Mixtures Refer to "10. STABILITY AND REACTIVITY"
	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 Packagin	
8. EXPOSURE CONTROLS/PE 8.1 Control parameters Engineering Controls	RSONAL PROTECTION Use Local exhaust ventilation.
Personal Protective Equip Respiratory Protectic	ment

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Physical State Color Odor pH Flash point Flammable limit Specific gravity Vapor density Solubility in water 9.2 Other information	Liquid Blue Solvent odor No Data. 75.0°C (Seta closed cup) 0.88(93°C) - 8.54(135°C)vol% (Ethylene glycol monobutyl ether acetate) 0.96-1.00g/cm <sup>3</sup> (25°C ) No information available. 1.1wt%(20°C) (Ethylene glycolmonobutyl ether acetate) Easily soluble (Gamma -Butyrolactone) No information available.
10. STABILITY AND REACTIV	ITY
10.1 Reactivity	
	Stable
10.2 Chemical stability	Reacts with acids and oxidizing agents
10.3 Possibility of hazardous read	00
-	Will not occur
10.4 Conditions to avoid	Extremely high temperature
10.5 Incompatible materials	Extremely high temperature
	Acids and oxidizing agents
10.6. Hazardous decomposition p	
	No information available
11. TOXICOLOGICAL INFORM 11.1 Information on toxicological e Acute Toxicity:	
Inhalation:	No data available
Ingestion: Ethylene	e glycol monobutyl ether acetate
Gamma	LD50:2400mg/kg(rat) a-Butyrolactone
	LD50: 1580mg/kg(rat)
Eyes:	No data available
Skin: Ethylene	e glycol monobutyl ether acetate
Gamma	LD50:1500mg/kg(rabbit) a-Butyrolactone
Carrier	LD50:>5000mg/kg(marmot)
Sensitization:	No data available
Mutagenicity:	No data available
Reproductive Toxicity:	No data available
Carcinogenicity: Other Information:	No data available. None
12. ECOLOGICAL INFORMAT	ION

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 ass			
PBT vPvB	Not applicable. 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 CONSIDERATI	ONS		
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 INFORMATIO	N		
14.1 UN number	Not applicable.		
14.2 UN proper shipping name			
14.3 Transport hazard class(es)	Not applicable.		
14.4 Packing group	Not applicable.		
	Not applicable.		
14.5 Environmental hazards	Marine Pollutant: Not applicable		
14.6 Special precautions for user			
14.7 Transport in bulk according to	Not applicable. Annex II of MARPOL73/78 and the IBC Code		
	Not applicable.		
	Follow all regulations in your country.		
<ol> <li>15. REGULATORY INFORMATION</li> <li>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.</li> </ol>			
0	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		

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.

	INFORMATION ant phrases	R20/21 skin	Harmful by inhalation and in contact with
Version:	2		



1. IDENTIFICATION OF THE S	SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1 Product identifier	Product Name : Ink Pack /Sub Cartridge(Black) Product Code : IP7-104/114	
1.2 Relevant identified uses of the	e substance or mixture and uses advised against	
	Inkjet Ink	
1.3 Details of the supplier of the s	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	N	
2.1 Classification of the substance	e or mixture	
<1999/45/EC >		
Classification:	Harmful preparation.	
2.2 Label elements		
<1999/45/EC >		
Symbols of danger :	Xn	
R-phrase: S-phrase:	R20/21 Harmful by inhalation and in contact with skir S24 Avoid contact with skin	
2.3 Other hazards	024 Avoid contact with Skin	
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		
	The vapor is heavier than air. Vapors or gases may i at distant ignition sources and flash back. Vapor/air r 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.
t important aumptama	and affects, both courts and delayed

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. ACCIDENTAL RELEASE MEAS	
i i t	quipment 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
t	the environment by discharging into rivers.
6.3 Methods and material for containm	nent and cleaning up
	Sweeping/Vacuuming/Neutralization
Methods and Equipment for C	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.
	scattering and wetting. Cleansing the
	contaminated area thoroughly with water after
	removal.
Prevention Measures for Sec	
	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."
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.
Avoid the contact with the skin. Prevents Handling of Incompatible Substances or Mixtures
Avoid the contact with the skin.

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 REA	ACTIVITY"
]	
Store away from oxidants.	
Have containers keep away from c and heat.	lirect sunlight
Store in a well-ventilated and cool	place
keeping container tightly closed.	
ng/Containers	
Use containers prescribed in the Regulations."	"UN Transport
	] Store away from oxidants. Have containers keep away from o and heat. Store in a well-ventilated and cool keeping container tightly closed. ng/Containers Use containers prescribed in the

#### 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

, ippoulation	
Physical State	Liquid
Color	Black
Odor	Solvent odor
pН	No Data.
Flash point	75.0°C (Seta closed cup)
Flammable limit	0.88(93°C) - 8.54(135°Ċ)vol%
	(Ethylene glycol monobutyl ether acetate)
Specific gravity	0.96-1.00g/cm <sup>3</sup> (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) No data available Eyes: 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: 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 INFORMATI 14.1 UN number	ON
	Not applicable.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	
14.4 Packing group	Not applicable.
	Not applicable.
14.5 Environmental hazards	Marina Pallutant: Nat applicable
14.6 Special precautions for user	Marine Pollutant: Not applicable
	Not applicable. o 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.

15.2 Chemical safety assessment No information available.	EINECS REACH this prod the REA Represe The impo a downs This data Regulation Follow a	dients in this product are listed on the or are exempt from listing. pre-registration of substances constituting luct are completed to the extent obliged by CH regulation by either the Only ntative appointed. orter of the Products is hereby regarded as tream user. a sheet was prepared in accordance with on(EC) No1907/2006. Il regulations in your country.
16. OTHER INFORMATION Relevant phrases	R20/21 skin	Harmful by inhalation and in contact with

Version:

2



1. IDENTIFICATION OF THE S	SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1 Product identifier	Product Name : Ink Pack /Sub Cartridge
	(Light Cyan) Product Code : IP7-105/115
1.2 Relevant identified uses of the	e substance or mixture and uses advised against
	Inkjet Ink
1.3 Details of the supplier of the s	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)
<1999/45/EC > Classification: 2.2 Label elements	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	
	The vapor is heavier than air. Vapors or gases may ig at distant ignition sources and flash back. Vapor/air m explosive.

	3.	COMPOSITION	INFORMATION O	<b>NINGREDIENTS</b>
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Main Ingredients	Content(%)	CAS No.	ACGIH	Symbols & R-phrase
Ethylene glycol monobutyl ether acetate	80-90	112-07-2	TWA20ppm	Xn;R20/21
Gamma-Butyrolactone	1-10	96-48-0	Not applicable	None
Polymer	1-10	Listed	Not applicable	None
Pigment	0.1-5	147-14-8	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 ME 6.1 Personal precautions, protections	EASURES ve 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 conta	
	ion/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	
	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 section	ns See Section 8 and 13
7. HANDLING AND STORAGE	
7.1 Precautions for safe handling Technical Measures	
rechnical Measures	Provide ventilation system and Use necessary
	personal protective equipment as described in

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

Local and General Ventilation	
	local ventilations and a full ventilation
system a	as described in "8. EXPOSURE CONTROLS
	RSONAL PROTECTION."
Precautions for Safe Handling	
	the use of heat, sparks, and fire in the
	ling area.
	ands thoroughly after handling.
	vallowing.
	e contact with the skin.
Prevents Handling of Incompatible Refer to	Substances or Mixtures "10. STABILITY AND REACTIVITY"
7.2 Conditions for safe storage, including a	iy incompatibilities
	andle or store near an open flame, sources
	r sources of ignition. Use only in the
well-ven	tilated areas and wear proper protective
	nt to avoid skin contact, eye contact and
vapor in	nalation.
7.3 Specific end use(s)	
Imcompatible Substances or Mixtu	
	"10. STABILITY AND REACTIVITY"
Storage Conditions	
	way from oxidants.
	ontainers keep away from direct sunlight and
heat.	
	a well-ventilated and cool place keeping
	er tightly closed.
Material Used in Packaging/Contai	
	ntainers prescribed in the "UN Transport
Regulat	ions."
8. EXPOSURE CONTROLS/PERSONAL P	ROTECTION
8.1 Control parameters	
Engineering Controls	
	al exhaust ventilation.
Personal Protective Equipment	
Respiratory Protection	
	tor to avoid breathing organic solvent
vapor.	ter te avera preatining erganie certerit
Hand Protection	
	nemical resistant gloves.
Eye Protection	ionneal recletant gioveen
	ety glasses or goggles.
Skin and Body Protection	
	orking clothes.
Specific Hygiene Measures	
	ands thoroughly after handling.
8.2 Exposure controls	
Level/Exposure Limits	

	ACGIH (TWA)
Ethylene glycol monobutyl ether acetate	20ppm

9. PHYSICAL AND CHEMICAL PROPERTIES9.1 Information on basic physical and chemical properties

Appearance Physical State Color Odor pH Flash point Flammable limit Specific gravity Vapor density Solubility in water 9.2 Other information	Liquid Blue Solvent odor No Data. 75.0°C (Seta closed cup) 0.88(93°C) - 8.54(135°C)vol% (Ethylene glycol monobutyl ether acetate) 0.96-1.00g/cm <sup>3</sup> (25°C ) No information available. 1.1wt%(20°C) (Ethylene glycolmonobutyl ether acetate) Easily soluble (Gamma -Butyrolactone) No information available.	
10. STABILITY AND REACTIV	ITY	
10.1 Reactivity		
	Stable	
10.2 Chemical stability	Reacts with acids and oxidizing agents	
10.3 Possibility of hazardous read	00	
-	Will not occur	
10.4 Conditions to avoid	Extremely high temperature	
10.5 Incompatible materials	Extremely high temperature	
	Acids and oxidizing agents	
10.6. Hazardous decomposition p		
	No information available	
11. TOXICOLOGICAL INFORMATION 11.1 Information on toxicological effects Acute Toxicity:		
Inhalation:	No data available	
Ingestion: Ethylene	e glycol monobutyl ether acetate	
Gamma	LD50:2400mg/kg(rat) a-Butyrolactone	
	LD50: 1580mg/kg(rat)	
Eyes:	No data available	
Skin: Ethylene	e glycol monobutyl ether acetate	
Gamma	LD50:1500mg/kg(rabbit) a-Butyrolactone	
Carrier	LD50:>5000mg/kg(marmot)	
Sensitization:	No data available	
Mutagenicity:	No data available	
Reproductive Toxicity:	No data available	
Carcinogenicity: Other Information:	No data available. None	
12. ECOLOGICAL INFORMAT	ION	

12. ECOLOGICAL INFORMATION 12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

<ul> <li>12.3 Bioaccumulative potential</li> <li>12.4 Mobility in soil</li> <li>12.5 Results of PBT and vPvB ass PBT vPvB</li> <li>12.6 Other adverse effects Environmental Hazards</li> </ul>	No information available. No information available. Sessment Not applicable. Not applicable. This product is insoluble in water. Treat using the best available techniques to avoid environmental contamination.
13. DISPOSAL CONSIDERATI 13.1 Waste treatment methods	ONS 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 INFORMATIO	-
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	o Annex II of MARPOL73/78 and the IBC Code Not applicable. Follow all regulations in your country.
15. REGULATORY INFORMAT 15.1 Safety, health and environme or mixture.	ental regulations/legislation specific for the substance
	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.
15.2 Chemical safety assessment	This data sheet was prepared in accordance with Regulation(EC) No1907/2006. Follow all regulations in your country. No information available.

16. OTHER INFORMATION Relevant phrases		R20/21 skin	Harmful by inhalation and in contact with
Version:	2		



1. IDENTIFICATION OF THE	SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1 Product identifier	Product Name : Ink Pack /Sub Cartridge (Light Magenta)
	Product Code : IP7-106/116
1.2 Relevant identified uses of th	e substance or mixture and uses advised against
1.2 Details of the supplier of the	Inkjet Ink
1.3 Details of the supplier of the s	•
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)
Classification: 2.2 Label elements	Harmful preparation.
<1999/45/EC >	
Symbols of danger : R-phrase:	Xn R20/21 Harmful by inhalation and in contact with skin
S-phrase: 2.3 Other hazards	S24 Avoid contact with skin
Routes of entry	Inhalation, Ingestion, and Skin
Harm to health	Contact with eyes may result in irritation.
harm to health	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 ig at distant ignition sources and flash back. Vapor/air m explosive.

3. COMPOSITION / INFORMATION	TION ON IN	GREDIENTS	5	
Main Ingredients	Content(%)	CAS No.	ACGIH	Symbols & R-phrase
Ethylene glycol monobutyl ether acetate	85-95	112-07-2	TWA20ppm	Xn;R20/21
Polymer	1-10	Listed	Not applicable	None
Pigment	0.1-5	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 Fighter	ſS
	In fire-extinguishing activity, wear an appropriate air breathing apparatus and full protective clothing for
C	nemicals.
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6. ACCIDENTAL RELEASE MEA 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
6.2 Environmental precautions	touch the damaged leakage. Do not release into the environment. Pay attention not to cause the influence on
6.3 Methods and material for contain 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
Methods and Equipment for	or sweeping up. 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
Prevention Measures for Se	removal. condary 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
	rovide ventilation system and Use necessary ersonal protective equipment as described in
"8	. EXPOSURE CONTROLS AND PERSONAL ROTECTION."Handling

AND PERSONAL PROT Precautions for Safe Handling Prohibit the use of heat,	8. EXPOSURE CONTROLS "ECTION."
of heat or sources of ign well-ventilated areas and	e skin. Mixtures AND REACTIVITY" ies ear an open flame, sources ition. Use only in the
7.3 Specific end use(s)	
Imcompatible Substances or Mixtures	
Refer to "10. STABILIT) Storage Conditions	Y AND REACTIVITY"
Store away from oxidan Have containers keep a heat. Store in a well-ventilated	way from direct sunlight and d and cool place keeping
container tightly closed. Material Used in Packaging/Containers Use containers prescrib Regulations."	
8. EXPOSURE CONTROLS/PERSONAL PROTECTIO	DN
8.1 Control parameters	
Engineering Controls Use Local exhaust ventil	lation.
Personal Protective Equipment	
Respiratory Protection Respirator to avoid brea	athing organic solvent
Respirator to avoid brea vapor.	atting organic solvent
Hand Protection	
Ware chemical resistant Eye Protection	t gloves.
Use safety glasses or g	oggles.
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 Color Odor pH Flash point Flammable limit Specific gravity Vapor density Solubility in water	Liquid Red Solvent odor No Data. 78.0°C (Seta closed cup ) 0.88(93°C) - 8.54(135°C)vol% (Ethylene glycol monobutyl ether acetate) 0.95-1.00g/cm <sup>3</sup> (25°C ) No information available. 1.1wt%(20°C) (Ethylene glycolmonobutyl ether acetate)
9.2 Other information	No information available.
10. STABILITY AND REACTIV 10.1 Reactivity	
10.2 Chemical stability	Stable
10.3 Possibility of hazardous read	Reacts with acids and oxidizing agents tions Will not occur
10.4 Conditions to avoid	Extremely high temperature
10.5 Incompatible materials	Acids and oxidizing agents
10.6. Hazardous decomposition p	
11. TOXICOLOGICAL INFORM 11.1 Information on toxicological e	
Acute Toxicity: Inhalation:	No data available e glycol monobutyl ether acetate
Eyes:	LD50:2400mg/kg(rat) No data available
	e glycol monobutyl ether acetate LD50:1500mg/kg(rabbit)
Sensitization: Mutagenicity:	No data available No data available
Reproductive Toxicity:	No data available No data available.
Carcinogenicity: Other Information:	None
12. ECOLOGICAL INFORMAT 12.1 Toxicity	ION
12.2 Persistence and degradabilit	No information available.
12.2 Persistence and degradabilit	No information available.

No information available.

No information available.

12.3 Bioaccumulative potential

12.5 Results of PBT and vPvB assessment

12.4 Mobility in soil

PBT vPvB 12.6 Other adverse effects Environmental Hazards	Not applicable. Not applicable.	
	This product is insoluble in water. Treat using the best available techniques to avoid environmental contamination.	
13. DISPOSAL CONSIDERATI 13.1 Waste treatment methods	ONS	
	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		
14.2 UN proper shipping name	Not applicable.	
	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		
14.7 Transport in bulk according to	Not applicable. Annex II of MARPOL73/78 and the IBC Code Not applicable. Follow all regulations in your country.	

15. REGULATORY INFORMATION15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

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.
15.2 Chamical actaty accomment	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	

Date of Issue : 20, September, 2012 SDS No.: Q54-1494



is

## Safety Data Sheet

1. IDENTIFICATION OF THE S	SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1 Product identifier	Product Name : Ink Pack /Sub Cartridge (Gray) Product Code : IP7-107/117
1.2 Relevant identified uses of the	e substance or mixture and uses advised against
	Inkjet Ink
1.3 Details of the supplier of the s	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 IDENTIFICATIO	N
2.1 Classification of the substance	e or mixture
<1999/45/EC >	
Classification:	Harmful preparation.
2.2 Label elements	
<1999/45/EC >	
Symbols of danger : R-phrase: S-phrase:	Xn R20/21 Harmful by inhalation and in contact with ski 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 i
	at distant ignition sources and flash back. Vapor/air explosive.

3. COMPOSITION / INFORMATION ON INGREDIENTS				
Main Ingredients	Content(%)	CAS No.	ACGIH	Symbols & R-phrase
Ethylene glycol monobutyl ether acetate	80-90	112-07-2	TWA20ppm	Xn;R20/21
Gamma-Butyrolactone	1-10	96-48-0	Not applicable	None
Polymer	1-10	Listed	Not applicable	None
Carbon Black	0.1-5	1333-86-4	TWA 3,5mg/m <sup>3</sup>	None
Diethylene glycol Diethyl ether	0.1-5	112-36-7	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

	ve 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	
C. 2. Mathematical startics for a sector	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 conta Decontamination/Absorpti	anment and cleaning up on/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 f	or 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 S	
6.4. Reference to other section	
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." 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

Level/Exposure Limits	
	ACGIH (TWA)
Ethylene glycol monobutyl ether acetate	20ppm
Carbon black	3.5mg/m <sup>3</sup>

9. PHYSICAL AND CHEMICAL PROPERTIES9.1 Information on basic physical and chemical properties

Appearance	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Physical Sta	ate Liquid
Color	Black
Odor	Solvent odor
pH	No Data.
Flash point	77.0°C (Tag closed cup)
Flammable limit	
	(Ethylene glycol monobutyl ether acetate)
Specific gravity	
Specific gravity Vapor density	No information available.
Solubility in wate	
	(Ethylene glycolmonobutyl ether acetate)
	Easily soluble (Gamma -Butyrolactone)
9.2 Other information	No information available.
10. STABILITY AND R	EACTIVITY
10.1 Reactivity	
	Stable
10.2 Chemical stability	
	Reacts with acids and oxidizing agents
10.3 Possibility of hazard	dous reactions
	Will not occur
10.4 Conditions to avoid	
	Extremely high temperature
10.5 Incompatible materi	als
-	Acids and oxidizing agents
10.6. Hazardous decomp	position products
	No information available
<b>11. TOXICOLOGICAL</b>	INFORMATION
11.1 Information on toxic	ological effects
Acute Toxicity:	•
Inhalation:	No data available
Ingestion:	Ethylene glycol monobutyl ether acetate
9	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 t)
Sensitization:	No data available
	No data available
Mutagenicity: Reproductive To	
	JAIOILY. INO UALA AVAIIANIO

Carcinogenicity:	Carbon black		
Other Information:	IARC Group 2B None		
12. ECOLOGICAL INFORMAT 12.1 Toxicity	ION		
	No information available.		
12.2 Persistence and degradabilit	y 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 as PBT vPvB			
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 CONSIDERATI 13.1 Waste treatment methods	ONS		
	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			
14.7 Transport in bulk according t	Not applicable. o Annex II of MARPOL73/78 and the IBC Code Not applicable. Follow all regulations in your country.		
	FION		

**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.

15.2 Chemical safety assessment		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.		
		No inforr	nation available.	
16. OTHE	ER INFORMATION Relevant phrases	R20/21 skin	Harmful by inhalation and in contact with	
Version:	2			

Date of Issue : 20, September, 2012 SDS No.: Q54-1495



## Safety Data Sheet

1. IDENTIFICATION OF THE S	UBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1 Product identifier	Product Name : Ink Pack /Sub Cartridge(Light Gray) Product Code : IP7-108/118		
1.2 Relevant identified uses of the	e substance or mixture and uses advised against		
	Inkjet Ink		
1.3 Details of the supplier of the s	afety 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			
<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 skir		
S-phrase:	S24 Avoid contact with skin		
2.3 Other hazards	labels for the section and Ohi		
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		
Horm to coolerical	headaches, dizziness or nausea.		
Harm to ecological	No information available.		
Risk of combustion and e			
	The vapor is heavier than air. Vapors or gases may ig at distant ignition sources and flash back. Vapor/air n explosive.		

3. COMPOSITION / INFORMA	TION ON IN	GREDIENT	S	
Main Ingredients	Content(%)	CAS No.	ACGIH	Symbols & R-phrase
Ethylene glycol monobutyl ether acetate	80-90	112-07-2	TWA20ppm	Xn;R20/21
Gamma-Butyrolactone	1-10	96-48-0	Not applicable	None
Polymer	1-10	Listed	Not applicable	None
Carbon Black	0.1-5	1333-86-4	TWA 3,5mg/m <sup>3</sup>	None
Diethylene glycol Diethyl ether	0.1-5	112-36-7	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

	e 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	
C. 2. Matheda and material far conto	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 conta Decontamination/Absorption	Inment and cleaning up on/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 f	or 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 S	
6.4. Reference to other section	
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." 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

Level/Exposure Limits	
	ACGIH (TWA)
Ethylene glycol monobutyl ether acetate	20ppm
Carbon black	3.5mg/m <sup>3</sup>

9. PHYSICAL AND CHEMICAL PROPERTIES9.1 Information on basic physical and chemical properties

	Appearance		···· ········· F··F····		
• •		ate	Liquid		
	Color		Black		
	Odor		Solvent odor		
pH			No Data.		
	Flash point		77.0°C (Tag 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 <sup>3</sup> (25°C)		
	Vapor density		No information available.		
	Solubility in wate	er	1.1wt%(20°C)		
			(Ethylene glycolmonobutyl ether acetate)		
			Easily soluble (Gamma -Butyrolactone)		
9.2 Oth	er information				
			No information available.		
10. ST	ABILITY AND R	EACTIVI	ТҮ		
10.1 Re					
	<b>,</b>		Stable		
10.2 Ch	emical stability				
			Reacts with acids and oxidizing agents		
10.3 Po	ssibility of hazard	lous react	ions		
			Will not occur		
10.4 Co	onditions to avoid				
			Extremely high temperature		
10.5 Incompatible materials					
			Acids and oxidizing agents		
10.6. Ha	azardous decomp	position pr			
			No information available		
11. TO	XICOLOGICAL	INFORM	IATION		
	ormation on toxic				
	Acute Toxicity:				
	Inhalation:		No data available		
	Ingestion:	Ethylene	e glycol monobutyl ether acetate		
	5	,	ĽĎ50:2400mg/kg(rat)		
		Gamma	-Butyrolactone		
			LD50: 1580mg/kg(rat)		
	Eyes:		No data available		
	Skin:	Ethylene	e glycol monobutyl ether acetate		
		•	LD50:1500mg/kg(rabbit)		
		Gamma	-Butyrolactone		
			LD50>5000mg/kg(marmot)		
	Sensitization:		No data available		
	Mutagenicity:		No data available		
	Reproductive To	oxicity:	No data available		

Carcinogenicity:	Carbon black		
Other Information:	IARC Group 2B None		
12. ECOLOGICAL INFORMAT 12.1 Toxicity	ION		
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