
Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Maintenance Kit
Product Code : IP7-130 (IP7-134:Cap cleaning & IP7-135 Wipe cleaning)
-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

(IP7-134:Cap Cleaning)

2. HAZARDS IDENTIFICATION

Classification: Not classified as hazard 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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Main Ingredients	Content(%)	CAS No.	ACGIH	Symbols & R-phrase
Diethylene glycol monobutyl Ether acetate	>98	124-17-4	Not applicable	Not applicable

4. FIRST-AID MEASURES

Skin Contact : In case of contact, immediately wash 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.
Further medical Treatment : None

5. FIRE-FIGHTING MEASURES

Hazardous properties:	Volatility is high and easy to ignite. May catch fire with ignition. Must be kept away from flame or sparks.
Suitable extinguishing media:	Form,CO ₂ , Dry Chemical and Water spray.
Not to be used extinguishing media:	Water (Jet)
Hazardous decomposition product :	Burning in insufficient air supply may produce toxic fume of carbon monoxide.
Protective equipment for Fire fighters :	Fire fighters should wear self-contained breathing apparatus to avoid inhalation of smoke and vapors.

6. ACCIDENTAL RELEASE MEASURES

Shut off all sources of ignition or open flame. Keep public away. For small spills, scrape spilled materials with disposal towels or dry sand. For large spills, dike and cover liquid with foam. Take up the spill by equipment made of plastics to avoid sparks and place in closed container. Prevent spills from entering sewers, watercourses or Low area to avoid pollution.

7. HANDLING AND STORAGE

Handling: 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.

Storage: Store containers in a cool and dark place. Keep containers closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit:	Diethylene glycol monobutyl Ether acetate ACGIH(TWA)Not established
Engineering controls:	Use with local exhaust ventilation.
Respiratory protection :	Respirator to avoid breathing organic solvent vapor.
Hand protection :	Wear chemical resistant gloves.
Eye protection :	Use safety glasses or goggles.
Skin protection :	Wear working clothes..
Other protection	No smoking, No eating and drinking at the work place.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Colorless transperance liquid.
Odor :	Solvent odor
Boiling point:	246.7°C
Melting point:	-32°C
Flash point:	114°C(Cleveland open cup)
Auto ignition temperature;	349°C
Flammable limit:	Lower0.7vol% Upper 10.7vol%
Specific gravity:	0.981g/cm ³ (20°C)
Vapor pressure:	1.33Pa(20°C)
Vapor density:	7.1(Air=1)

Solubility in water:

in Water: 6.5wt%(20°C)

Water in: 3.7wt%(20°C)

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Diethylene glycol monobutyl Ether
acetate Oral Toxicity LD50(rat) 6,500mg/kg

Skin Toxicity LD50(rabbit) 14,500mg/kg

Carcinogenicity: No information available

Mutagenicity: No information available.

Other toxicity information: No information available.

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.

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.

14. TRANSPORT INFORMATION

Classification: Not applicable

UN CLASS: Not applicable

UN NUMBER: Not applicable

PACKING GROUP: Not applicable

PROPER SHIPPING NAME: Ink

Follow all regulations in your country.

15. REGULATORY INFORMATION

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

Classification: Not classification as hazardous preparation.

Follow all regulation in your country.

(IP7-135 Wipe Cleaning)

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Main Ingredients	Content(%)	CAS No.	ACGIH	Symbols & R-phrase
Ethylene glycol monobutyl ether acetate	85-95	112-07-2	20ppm	Xn;R20/21
Gamma-Butyrolactone	1-10	96-48-0	Not applicable	Not applicable

4. FIRST-AID MEASURES

Skin Contact : In case of contact, immediately wash 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.
Further medical Treatment : None

5. FIRE-FIGHTING MEASURES

Hazardous properties: Volatility is high and easy to ignite. May catch fire with ignition.
Must be kept away from flame or sparks.
Suitable extinguishing media: Form,CO₂, Dry Chemical and Water spray.
Not to be used extinguishing media: Water (Jet)
Hazardous decomposition product : Burning in insufficient air supply may produce toxic fume of carbon monoxide.
Protective equipment for Fire fighters : Fire fighters should wear self-contained breathing apparatus to avoid inhalation of smoke and vapors.

6. ACCIDENTAL RELEASE MEASURES

Shut off all sources of ignition or open flame. Keep public away. For small spills, scrape spilled materials with disposal towels or dry sand. For large spills, dike and cover liquid with foam. Take up the spill by equipment made of plastics to avoid sparks and place in closed container. Prevent spills from entering

sewers, watercourses or Low area to avoid pollution.

7. HANDLING AND STORAGE

Handling: 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.

Storage: Store containers in a cool and dark place. Keep containers closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit:	Ethylene glycol monobutyl ether acetate ACGIH(TWA)20ppm Gamma-Butyrolactone ACGIH(TWA) Not established
Engineering controls:	Use with local exhaust ventilation.
Respiratory protection :	Respirator to avoid breathing organic solvent vapor.
Hand protection :	Wear chemical resistant gloves.
Eye protection :	Use safety glasses or goggles.
Skin protection :	Wear working clothes..
Other protection	No smoking, No eating and drinking at the work place.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	liquid
Odor :	Solvent odor
Boiling point:	>191°C(Ethylene glycol monobutyl ether acetate)
Melting point:	>-64.6°C (Ethylene glycol monobutyl ether acetate)
Flash point:	>81.0°C(Cleveland open cup)
Auto ignition temperature;	>340°C(Ethylene glycol monobutyl ether acetate)
Flammable limit:	Lower0.8vol%(Ethylene glycol monobutyl ether acetate) Upper 8.5vol%(Ethylene glycol monobutyl ether acetate)
Specific gravity:	0.96-1.00g/cm ³ (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 (Gamma-Butyrolactone)
Water in:	1.6wt%(20°C)(Ethylene glycol monobutyl ether acetate)

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

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..

Mutagenicity: No information available.

Other toxicity information: No information available.

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.

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.

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.

15. REGULATORY INFORMATION

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

Classification: Harmful preparation.

Indicate 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.

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: 18-5-2009

Version: 1