
Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : GX 3M INK CARTRIDGE(LIGHT CYAN)
Product Code : M5-305
Application model: W-64s/W-54s
Specific uses: Inkjet Printing ink
Company Name : Seiko I Infotech Inc.
Quality Assurance Department
Address : 563, Takatsuka-Shinden, Matsudo-shi, Chiba, 270-2222, Japan
Telephone No : +81-47-391-2349
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2. HAZARDS IDENTIFICATION

Classification: Harmful preparation
Routes of entry: Inhalation, ingestion, and Skin.
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 are explosive.

Emergency overview: 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.

WARNING: Harmful if inhaled or absorbed through skin.
may be harmful if swallowed.

May cause irritation to eyes.
Combustible liquid and vapor.

Avoid breathing vapor or mist.
Prolonged inhalation may cause drowsiness and dizziness.

Use only with adequate ventilation.
Avoid contact with eyes, skin and clothing.
Wear safety goggles and protective gloves.
Keep away from heat, sparks and flames.

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

Main Ingredients	Content(%)	CAS No.	ACGIH	EU Classification
Pigment	0.1-5	147-14-8	Not applicable	Not applicable
Ethylene glycol monobutyl ether acetate	80-90	112-07-2	TWA20ppm	Xn:R20/21
Gamma-Butyrolactone	1-10	96-48-0	Not applicable	Xn:R22,Xi:R36
Polymer	1-10	Listed	Not applicable	Not applicable
Dispersant	0.1-5	Listed	Not applicable	Not applicable

4. FIRST-AID MEASURES

- Skin Contact: In case of contact, immediately wash skin with soap and plenty of water. If irritation develops, get medical attention. Remove contaminated clothing and shoes.
- Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If irritation develops, get medical attention.
- Inhalation: Move to fresh air area. Call a physician
- Ingestion: If swallowed, seek medical advice immediately.
- Further Medical Treatment : None

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

- Hazardous properties: Volatility is high and easy to ignite.
The volatilized gas may catch fire by a distance ignition source.
Must be kept away from flame or spark.
- Suitable extinguishing media: Foam,CO₂,and Dry chemical and Water spray.
- Not to be used extinguishing media : Water (Jet)
- Hazard decomposition products: 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 a plastic tool and put in a sealable 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:

Chemical Name	CAS No	OSHA(PEL)	ACGIH(TWA)
Ethylene glycol monobutyl ether acetate	112-07-2	Not established	20ppm
Gamma-Butyrolactone	96-48-0	Not established	Not established

Engineering controls:	Use 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 :	Light Blue colored 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:	75.0°C(Tag closed cup)
Auto ignition temperature;	>340°C(Ethylene glycol monobutyl ether acetate)
Flammable limit:	Lower 0.8vol%(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: 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 partially soluble 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

IMDG

Class: Not applicable

UN Number: Not applicable

DOT

Class: Combustible.

15. REGULATORY INFORMATION

United States

OSHA STATUS: See Section 8

TSCA STATUS: All ingredients are listed on the TSCA Inventory.

SARA TITLE 3

SARA 313 Supplier Notification

This product contain the following toxic chemical subject to the reporting requirements of section 313 of title 3 of superfund amendment and reauthorization act of 1986 and 40 CFR Part 372.

Chemical Name CAS No.

Ethylene glycol monobutyl ether acetate 112-07-2

16. OTHER INFORMATION

HMIS (the Hazardous Material Identification System) Rating

Health 1

Flammability 2

Reactivity 0

0=minimal, 1=slight, 2=moderate, 3=serious, 4=severe

Personal Protection H

NFPA (National Fire Protection Association) Rating

Health 1

Flammability 2

Reactivity 0

0=minimal, 1=slight, 2=moderate, 3=serious, 4=severe

Full text of R-phrases referred to R20/21:harmful by inhalation and in contact with skin.
section 3

R22:Harmful if swallowed.

R36:Irritating to eyes.

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

Version: 1