

Material safety data sheet

Section 1. Material and Corporate Identification

Product name

Eco Solvent ink-jet Cyan, Magenta, yellow, black, Light Cyan, Light magenta, cleaning liquid ink

Description

Organic Eco-solvent ink

Company

Viscosmo Co.,

Address

4F, #1589-6, Chungryongdong, Kwanakgu, Seoul, Korea south

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Section 2. Composition Information

Ingredient and content of ink composition

Ingredients	CAS No.	EINECS No.	Contents (%)
Γ-Butyrolactone	96-48-0	2025095	20-30
Diethylene glycol diethyl ether	112-36-7	2039637	30-60
Dipropylene glycol monomethyl ether	34590-94-8	2521042	5-20
Acrylic resin	-	-	0.1-5
Pigment	Registered	-	1-5

Section 3. Hazard Identification

Emergency Overview

This health hazard assessment is based on information that is available on the properties of its components.

Potential Health Effects

Skin: Ink contact with skin may cause irritation, swelling, or redness.

Eyes: Ink contact with eye may cause irritating.

Inhalation: Ink vapors may cause respiratory irritation.

Ingestion: May cause upset stomach.

Section 4. First Aid Measures

Critical hazards to man and the environment : none

Skin: Wash material off of the skin with plenty of soap and water. If any other symptom is developed get medical attention.

Eyes: Immediately flush with plenty of water and have eyes examined and treated by medical personnel.

Inhalation: Take affected persons out in the fresh air, if necessary.

Swallowed: Have patient rinsed out mouth with water.

Section 5. Fire Fighting Measures

Extinguishing agent

Water:NG /Carbonic acid gas:OK /Form:OK /Powder:OK /Disiccant sand : OK

Keep out of fire and near heatings.

Wear heat resistant clothes, gloves, mask

Do not use water

Section 6. Accidental Release Measures

Should be handle carefully, can be contaminated color if spilled.

Steps to be taken in case material is released or spilled:

Wear skin protection during cleanup. Contain spill and keep out of sewers and drains. Soak up material with absorbent and shovel into a chemical waste container. Wash residue from spill area with water and flush to a sewer serviced by a wastewater treatment facility. Use care to minimize the amount of colored material that reaches the sewer.

Section 7. Precautions for Safe Handling and Use

Handling

Keep out of children and do not drink ink.

A container is sealed each time.

It is dealt with in a ventilated place.

Tools of none sparks type are used.

Use of fire and a high temperature thing is forbidden on the outskirts.

Wear suitable protection implements(glove, apron, etc) for work.

Storage

Do not store the ink and ink cartridge in the high or freezing Temperatures.

Store in a cool and dry place

Keep ink and ink cartridge out of direct sunlight.

Do not dismantle cartridge.

Do not store cartridge with oxidizing agents or explosives.

Section 8. Exposure Controls and Personal Protection

Engineering controls

Ventilation: Use ventilation for the safety air conditions.

If needed, use gloves, apron, mask, goggles.

Exposure Controls

Handling equipments must be none-exposure type.

Personal Protection

Skin: The glove of the quality of the material with which the organic solvent or chemicals does not permeate is worn.

Eye: Use protects goggle.

Section 9. Physical and Chemical Properties

Shape and appearance : Cyan color, liquid

Odour : distinct.

Specific gravity : 0.96

Solubility in water : non miscible

Boiling point : over 155 °C

Viscosity : 3.0-5.0 cps at 25°C

Other reactivity information : No dangerous reaction under standard conditions.

Section 10. Stability and reactivity

Flash point: Over 80°C

Dangerous substance with contact: No information

No dangerous reaction will occur with correct handling and storage.

Section 11. Toxicological Information

Name	Density	ACCGIH(TLV)	IARC Class	Others
-	-	-	-	-

Routes of overexposure: Eye, skin, inhalation, and oral

Acute Health Hazards:

Overexposure of eye surface to ink may be mildly irritating.
 Overexposure of skin to ink contact may cause irritation and some people swelling and redness.
 Intentional inhalation overexposure to ink vapors may result in respiratory tract irritation.
 Intentional or accidental oral ingestion may cause an upset stomach.
 Chronic Health Hazards: No information

Section 12. Ecological Information

Follow the appearance cautions which do not affect environment in the cases, such as abandonment, at the time of disclosure.

Section 13. Disposal considerations

Empty container retains product residue.
 Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product.
 For disposal of wastes, such as waste fluid and a container, observe local regulations.
 For the waste generated by drainage processing, incineration observe local regulations.

Section 14. Transport Information

Common

General cautions of the clause of the cautions on handling and storage are followed.

Land transportation

When it corresponds to Fire Service Law and labor security and hygiene law, the place appointed about transportation of a statute is followed.

Marine transportation

The place set to Law for Safety of Vessels is followed.

Air transportation

The place set to the Aviation Act is followed.

Not regulated as a hazardous material by DOT, IMO. or IATA.

Section 15. Regulatory Information

Industrial Safety and Health Law

Dangerous article (flammable material)

Organic xxxxxx(2nd organic solvent)

PRTR: Not corresponded

Fire Defense Law: Hazardous material 4th category, 2nd Petroleum oil (Non-aqueous)

UN Number: No data available

EU Risk Phase

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Section 16. Other Information

This MSDS contains health, safety, and environmental information and it was created based on the data which can come to hand at present, information, and data since evaluation of danger and detrimental nature is not necessarily enough, be careful of handling enough.