

Material Safety Data Sheet

Article and corporate Identification

Product Name	Eco-solvent ink cartridge C M Y K Lc Lm
Description:	Organic solvent ink, color C M Y K Lc Lm

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Composition Information

Ingredient and Content (for danger detrimental substances)		
Ingredients	Contents(%)	Note
Organic pigment	2.0-4.0	Nickel compound (Ni:0.02% or less)
Vinyl resin	1.0-4.0	
Ethylene glycole monobutyl ester acetale	50-60	
Propylene glycole monometyl ester acetale	15-25	
Cyclohexanone	3.0-5.0	
2-ethoxyethyl acetate	10-15	

Hazard Identification

<p><u>Emergency Overview</u></p> <p>Inflammable liquid and acute toxicity substance</p> <p><u>Potential Heath Effects</u></p> <p>When steam piles up, there is fear of ignition. There is possibility of causing organic-solvent poisoning. Don't absorb intentionally. In addition, the following condition May be presented in that case It might start giddiness, headache, ect. There is a slight anesthesia action. Eyes, skin and a respiratory tract have a stimulus.</p>
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First Aid Measures

Eyes	<ul style="list-style-type: none">*Wash eyes 15minutes or more by a lot of pure running waters immediately.*Wash completely to the reverse side of an eyelid.*Consult physician as soon as possible.
Skin	<ul style="list-style-type: none">*Wipe put the adhesions as quickly as possible.Detergent for the skins.*Full wash out using a lot of water and soap, or the Never use thinner.*Consult a doctor, if change is recognized on skin or irritation continues.
Inhalation	<ul style="list-style-type: none">*When steam is inhaled in large quantities and feeling become bad, it moves to the fresh place of air immediately, and is warmly made quiet.*A breath respire artificially, when having stopped, irregularity and It is not made not to make a vomiting thing swallow. Receive a doctor's allowance immediately
Ingestion	<ul style="list-style-type: none">*When drinking by mistake, lie quietly and consult a doctor immediately.*Do not swallow vomits.

Fire Fighting Measures

Extinguishing Agent Water: NG/Carbonic acid gas: OK /Form: OK/Powder: OK/Desiccant Sand: OK
Fire Fighting Instructions Wear certain protection(Heat Resistant clothes, ect.) Remove inflammable staffs quickly from the circumference. Do not use water.

Accidental Release Measures

<ul style="list-style-type: none">*Wear certain protections(gloves, mask, apron, goggles. ect).*Outflow things are collected in the container which can be sealed and are moved to safe places, such as an outdoor open space.*An adhesion thing waste, ets, should take a measure based on a related law*The neighboring source of ignition, a high temperature object, and neighboring combustibles are removed quickly.*Prepare suitable fire extinguisher for the case of flashing.*Collect inks using tools, such as products made from a plastic to avoid sparks.*Absorb by nonflammable thing of dryness sand, the ground, and others.For a lot of outflow, it encloses with the landfill to prevent outflow.

Precautions For safe Handling and Use

Handling

It is dealt with in a well ventilated place.

A container is sealed each time.

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

For the measure against static electricity, equipment etc, is grounded and electric apparatus uses a anti-explode type(safety type).

Tools of none sparks type are used.

Fabrics which are used for removal or wiping of inks etc. are soaked in water until they are abrogated war suitable protection implements(glove, protection mask, apron, goggles, etc.) for work..

Equip sufficient exhaust systems when working in the sealed place, and war suitable protection implements.

Storage

*Avoid direct rays of sunlight.

*Keep at the place with sufficient ventilation.

*Sore in place of away from fire and a heat source.

Exposure Control and personal Protection

Engineering Controls

*A ventilator system must be equipped to prevent piling up steam.

*A machine which uses this inks must be taken ground.

*Near the handing place, it considers as equipments with which the thing used as high temperature and source of ignition is not placed.

Exposure Controls

*Handling equipments must be none-exposure type.

Personal Protection

*Eyes: Use protect goggle.

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

Physical and chemical Properties

Appearance Liquid
Boiling Point : 153 C ⁰ over
Steam Pressure: 490Pa (20 C ⁰)
Density:0.966
Others No other information.

Stability an Reactivity

Flash Point: 70 C ⁰
Autoflammability:330 C ⁰
Explosion lower limit:0.7%
Explosion upper limit:11%
<u>Dangerous substance with contact</u> *No information
<u>Generation of detrimental gas by combustion ect</u> *Detrimental gas, such as CO and a low numerator monomer, occurs.
<u>Other reactivity information</u> *No dangerous reaction under standard conditions.

Toxicological Information

Name	Density	ACGIH(TLV)	IARC Class	Others
Cyclohexanone	25ppm	25ppm	-	(rat)LD50:1620/kg
<u>Toxicological information for this product</u> *Although the safety examination as a product is omitted, when it uses wrongly. Influence may appear in liver and the kidney. Moreover, degreasing or the skin may caused.				

Ecological information

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

Disposal Considerations

- *For disposal of wastes, such as waste fluid and a container, observe local regulations.
- *The drainage which washed a container, machine equipment, etc. is passing as it is neither to the ground nor a drain.
- *For the waste generated by drainage processing, incineration, etc, observe local regulations.
- *In carrying out incineration processing of the waste etc. in order to generate detrimental gas, the incinerator without cleaning equipment is not used.

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 statute is followed

Marine transportation

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

Air transportation

*The place set the aviation act is followed.

Regulatory Information

Industrial Safety and health Law: Dangerous article(flammable material)

PRTR: Not corresponded

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

UN Number: Not corresponded

EU Risk Phrase

Xn

R20/21

S24

(**Note**)The contents are created based on the data which can come to hand at present, information, and date, since evaluation of danger and detrimental nature is not necessarily enough ,be careful of handling enough.