Page 1 of 8

Canon

MATERIAL SAFETY DATA SHEET

MSDS #:

Product Code:

IC1440-0202

0617B

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon FINE Cartridge CL-41

Product Code: 0617B
Company Name: Canon Inc.

Address: 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

Use of the Product: Ink for Ink Jet Printer

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

SECTION 2	COMITODI	11011/1	MORMATIC	DI ON INGKE	DIENTS		
< Ingredient(s) > Chemical Name / Generic Name	CAS#/ EC#	Weight	EU Symbol/ R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
Glycerin	56-81-5 / 200-289-5	1 - 10	None / None	(as mist) Total dust TWA = 15 mg/m³ Respirable fraction TWA = 5 mg/m³	(as mist) TWA = 10 mg/m ³	Not established	Not established
Ethylene glycol (Contained in cyan and magenta ink)	107-21-1 / 203-473-3	5 - 10	Xn / R22	Not established	(aerosol) Ceiling = 100 mg/m³	$TWA = 20 \text{ ppm},$ 52 mg/m^3 $STEL = 40 \text{ ppm},$ 104 mg/m^3	10 ppm, 26 mg/m ³
Diethylene glycol (Contained in yellow ink)	111-46-6 / 203-872-2	5 - 10	Xn / R22	Not established	Not established	Not established	10 ppm, 44 mg/m³
Substituted phthalocyanine (Contained in cyan ink)	Confidential	5 - 10	Xi / R41 R52/53	Not established	Not established	Not established	Not established
Lactam	Confidential	1 - 10	None / None	Not established	Not established	Not established	Not established
Magenta dye (Contained in magenta ink)	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
Water	7732-18-5 / 231-791-2	60 - 80	None / None	Not established	Not established	Not established	Not established

Page 2 of 8



MATERIAL SAFETY DATA SHEET

IC1440-0202 MSDS #: Product Code:

0617B

< Carcinogen >

No component of this ink is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

A three-color ink cartridge. (Cyan, Magenta and Yellow)

All the ink is liquid mixture with slight odor.

Potential Health Effects and Symptoms:

Inhalation:

No adverse effects are expected under intended use.

Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, headache and nausea.

Ingestion:

May cause abdominal pain, diarrhea, dizziness, drowsiness, dullness, headache, nausea and vomiting.

Cyan and Yellow: No irritation is expected.

Magenta: May cause mild irritation.

(See SECTION 11)

Skin:

Cyan and Magenta: May cause mild irritation and no sensitization.

Yellow: Neither irritation nor sensitization is expected.

(See SECTION 11)

Chronic Effects:

Not identified

Medical Conditions Generally known to be Aggravated by Exposure:

Not identified

SECTION 4 FIRST AID MEASURES

First Aid Measures:

Inhalation:

If symptoms are experienced, move victim to fresh air and obtain medical advice.

Rinse mouth. Give one or two glasses of water.

If irritation or discomfort occurs, obtain medical advice immediately.

Immediately flush with lukewarm, gently flowing water for 5 minutes or until the chemical is removed.

If irritation persists, obtain medical advice immediately.

Skin:

Wash with water and soap or mild detergent.

If irritation persists, obtain medical advice.

Note to Physicians:

None

Page 3 of 8

Canon

MATERIAL SAFETY DATA SHEET

MSDS #: IC1440-0202
Product Code: 0617B

SECTION 5 FIRE	FIGHTING MEASURES					
Fire Fighting Measures:						
	Extinguishing Media:					
CO ₂ , water, foam or dry chemicals						
Unsuitable Extinguis None	aing Media:					
Special Fire Fighting Procedures: None						
Unusual Fire and Exp	plosion Hazards:					
Fire and Explosive Prope	rties (See also Section 9):					
	Hazardous Combustion Products:					
CO, CO ₂ , NOx and SOx						
Other Properties:						
None						
SECTION 6 ACCI	DENTAL RELEASE MEASURES					
Personal Precautions:						
Avoid contact with skir						
Environmental Precautio						
	r, surface water or ground water.					
Method for Cleaning Up						
Wipe off with wet cloth	or paper.					
SECTION 7 HAND	DLING AND STORAGE					
Handling:						
Use with adequate vent						
Avoid contact with skir						
	out the contaminated area immediately.					
Storage:	place					
Keep in a cool and dry Protect from sunlight.	prace.					
	Keep out of the reach of children.					
Specific Uses:						
Ink for Ink Jet Printer.						
For more information, j	please refer to the instruction of this product.					
SECTION 8 EXPO	SURE CONTROLS / PERSONAL PROTECTION					
Exposure Guidelines: Not established for this	s ink. (See also SECTION 2)					
Engineering Controls: Use adequate ventilation						
Personal Protection Equi Respiratory Protection	• ''					
	■ Not Required					
Eye/Face Protection:	Required					
	■ Not Required					
Skin Protection:	☐ Required Not Required					
	-					

Page 4 of 8

Canon

MATERIAL SAFETY DATA SHEET

MSDS #: IC1440-0202
Product Code: 0617B

SECTION 9 PHYSICAL AND CH	HEMICAL PROPERTIES			
Appearance:	Cyan, magenta and yellow liquid			
Odor:	Slight odor			
pH:	7 - 10			
Boiling Point/Range(°C):	Not available			
Melting Point/Range(°C):	Not available			
Decomposition Temperature (${}^{\circ}$ C):	Not available			
Flash Point($^{\circ}$ C):	Estimate: None			
Flammable (Explosive) Limits:	Not available			
Autoignition Temperature(°C):	Not available			
Flammability:	Neither flammable nor combustible.			
Explosive Properties:	Estimate: None			
Oxidizing Properties:	Estimate: None			
Vapor Pressure :	Not available			
Vapor Density :	Not available			
Density / Specific Gravity:	1.0 - 1.1			
Water Solubility :	Miscible			
Fat Solubility :	Not available			
Partition Coefficient (n-Octanol/Water):	Not available			
Percent Volatile (%):	60 - 80			
Evaporation Rate:	Not available			
Viscosity (mPa s):	1 - 5			
SECTION 10 STABILITY AND R	EACTIVITY			
Stability:	Stable □ Unstable			
Conditions to Avoid:	None			
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents			
Hazardous Decomposition Products:	CO, CO ₂ , NOx, SOx and Ammonia			
Hazardous Polymerization:	☐ May Occur ☑ Will Not Occur			
Conditions to Avoid:	None			

Page 5 of 8



MATERIAL SAFETY DATA SHEET

MSDS #: IC1440-0202
Product Code: 0617B

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:

Not available

Ingestion:

Cyan and Magenta: Not available

Yellow: [Data of similar composition ink] $LD_{50} > 2000$ mg/kg (rat) OECD Guidelines No.423 (2001), 96/54/EC Method B1 tris

Eye:

Cyan: [Data of similar composition ink] Practically non-irritant (rabbit)

OECD Guidelines No.405 (2002), 2004/73/EC Method B5

Magenta: [Data of similar composition ink] Mild irritant (rabbit)

Yellow: [Data of similar composition ink] Practically non-irritating (rabbit)

OECD Guidelines No.405 (2002), 92/69/EEC Method B5

Skin:

Cyan and Magenta: [Data of similar composition ink] Mild irritant (rabbit)

OECD Guidelines No.404 (2002), 2004/73/EC Method B4 Yellow: [Data of similar composition ink] Not irritant (rabbit)

OECD Guidelines No.404 (2002), 92/69/EEC Method B4

Sensitization:

Cyan and Magenta: [Data of similar composition ink] Non-sensitizer (mouse)

OECD Guidelines No.429 (2002), 2004/73/EC Method B42

Yellow: [Data of similar composition ink] Non-sensitizer (guinea pig)

OECD Guidelines No.406 (1992), 96/54/EC Method B6

Mutagenicity:

Ames test:

All colors: Negative (S. typhimurium & E. Coli)

Reproductive Toxicity:

Not available

Carcinogenicity:

Not available

Others:

Not available

Page 6 of 8

Canon

MATERIAL SAFETY DATA SHEET

MSDS #: IC1440-0202
Product Code: 0617B

SECTION 12 I	ECOLOGICAL INFORMATION					
Mobility:	Not available					
Persistence / Degradability:	Not available					
Bioaccumulation:	Not available					
Ecotoxicity:	Not available					
Other Adverse Effec	cts: Not available					
Method of Disposal:	DISPOSAL CONSIDERATIONS: be subject to federal, state and local laws.					
SECTION 14	TRANSPORT INFORMATION					
UN #:	None					
UN Shipping Name:	None					
UN Classification:	None					
UN Packing Group:	None					
Marine Pollutant:	☐ Yes Chemical name (wt%): ☑ No					
Special Precautions	Special Precautions: None					
SECTION 15 F < EU Information >	REGULATORY INFORMATION					
Information on the l	Label:					
Symbol & Indica	ation: Not required					
R-Phrase: Not required						
S-Phrase: Not required						
Not required	ponent(s):					
-	ions under 1999/45/EC Annex V:					
Not required						
•	n Relation to Protection of Man or the Environment:					
76/769/EEC:	Not regulated					
(EC)2037/2000:	Not regulated					
(EC)304/2003:	Not regulated					
Others:	None					

Page 7 of 8



MATERIAL SAFETY DATA SHEET

MSDS #: IC1440-0202
Product Code: 0617B

< USA Information >

Information on the Label under FHSA:

Signal Word: Not required

Hazard warning:

Not required

Safety Advice:

Not required

Hazardous Component(s):

Not required

SARA Title III §313:

Chemical NameWeight %"Ethylene glycol" (107-21-1) (Contained in cyan and magenta ink)5 - 10"Copper Compounds" (Contained in cyan ink)5 - 10(as Cu)(< 0.35)</td>

California Proposition 65:

Chemical Name Weight %
None

< Canada Information >

WHMIS Controlled Product: Not applicable (Manufactured article)

< Australia Information >

Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC.

SECTION 16 OTHER INFORMATION

<R phrase list>

R22: Harmful if swallowed.

R41: Risk of serious damage to eyes.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

<Revised information from the previous version>

Section 2, 3, 9, 11 and 15



MATERIAL SAFETY DATA SHEET

MSDS #: IC1440-0202
Product Code: 0617B

Literature Reference:

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EC)304/2003
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008]

Abbreviations:

EU: European Union.

OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA). ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists. EU ILV: Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.

DFG MAK: MAK(Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft.

TWA: Time Weighted Average. STEL: Short Term Exposure Limit.

IARC: International Agency for Research on Cancer.

NTP: National Toxicology Program (USA).

OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA).

FHSA: Federal Hazardous Substances Act (USA).

WHMIS: Workplace Hazardous Materials Information System. NOHSC: National Occupational Health and Safety Commission.

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