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0618B



# MATERIAL SAFETY DATA SHEET

MSDS #: IC1441-0202

Product Code:

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

**COMPANY/UNDERTAKING** 

**Product Name:** Canon FINE Cartridge CL-51

Product Code: 0618B
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	COMPOSI	11011/1	NEORWALIC	JN 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) $TWA = 10 \text{ mg/m}^3$	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	$TWA = 20 \text{ ppm},$ $52 \text{ mg/m}^3$ $STEL = 40 \text{ ppm},$ $104 \text{ mg/m}^3$	10 ppm, 26 mg/m <sup>3</sup>
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/m <sup>3</sup>
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

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### < 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.

### Eye:

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.

### Ingestion:

Rinse mouth. Give one or two glasses of water.

If irritation or discomfort occurs, obtain medical advice immediately.

### Eve:

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

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# MATERIAL SAFETY DATA SHEET

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SECTION 5 FIRE F	IGHTING MEASURES					
Fire Fighting Measures:						
<b>Extinguishing Media:</b>						
CO <sub>2</sub> , water, foam or o	lry chemicals					
Unsuitable Extinguishi None	ng Media:					
<b>Special Fire Fighting P</b> None	rocedures:					
Unusual Fire and Expl None	osion Hazards:					
Fire and Explosive Proper	ties (See also Section 9):					
Hazardous Combustion						
CO, CO <sub>2</sub> , NOx and SOx						
Other Properties:						
None						
SECTION 6 ACCID	ENTAL RELEASE MEASURES					
Personal Precautions:						
Avoid contact with skin,	eves and clothing.					
<b>Environmental Precaution</b>						
	surface water or ground water.					
Method for Cleaning Up:						
Wipe off with wet cloth	or paper.					
CECTION 5 HAND	This AND STEPP ASE					
	LING AND STORAGE					
Handling:						
Use with adequate ventil						
	Avoid contact with skin, eyes and clothing.  In case of contact, wash out the contaminated area immediately.					
	The tile containmated area immediately.					
Storage: Keep in a cool and dry pl	ace.					
Protect from sunlight.						
Keep out of the reach of children.						
Specific Uses:						
Ink for Ink Jet Printer.						
For more information, pl	ease refer to the instruction of this product.					
SECTION 8 EXPOS	URE CONTROLS / PERSONAL PROTECTION					
<b>Exposure Guidelines:</b>						
Not established for this i	nk. (See also SECTION 2)					
<b>Engineering Controls:</b>						
Use adequate ventilation						
Personal Protection Equip	• •					
Respiratory Protection						
E/E E	☑ Not Required					
Eye/Face Protection:	Required					
	☑ Not Required					
Skin Protection:	Required  Not Required					
	☑ Not Required					

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# MATERIAL SAFETY DATA SHEET

MSDS #: IC1441-0202
Product Code: 0618B

SECTION 9 PHYSICAL AND C	CHEMICAL PROPERTIES		
Appearance:	Cyan, magenta and yellow liquid		
Odor:	Slight odor		
pH:	7 - 10		
<b>Boiling Point/Range(°C):</b>	Not available		
Melting Point/Range(°C):	Not available		
<b>Decomposition Temperature</b> (°C):	Not available		
Flash Point(°C):	Estimate: None		
Flammable (Explosive) Limits:	Not available		
Autoignition Temperature ( ${}^{\circ}C$ ):	Not available		
Flammability:	Neither flammable nor combustible.		
<b>Explosive Properties:</b>	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		
<b>Evaporation Rate:</b>	Not available		
Viscosity (mPa s):	1 - 5		
SECTION 10 STABILITY AND I	REACTIVITY		
Stability:			
Conditions to Avoid:	None		
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents		
<b>Hazardous Decomposition Products:</b>	CO, CO,, NOx, SOx and Ammonia		
Hazardous Polymerization:	☐ May Occur  ☑ Will Not Occur		
Conditions to Avoid:	None		

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## MATERIAL SAFETY DATA SHEET

MSDS #: \_\_\_ Product Code: IC1441-0202 0618B

### 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

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# MATERIAL SAFETY DATA SHEET

MSDS #: IC1441-0202
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SECTION 12	ECOLOGICAL INFORMATION						
<b>Mobility:</b>	Not available						
Persistence / Degradability:	Not available						
<b>Bioaccumulation:</b>	Not available						
<b>Ecotoxicity:</b>	Not available						
Other Adverse Effe	Not available						
Method of Disposal	DISPOSAL CONSIDERATIONS : De subject to federal, state and local laws.						
SECTION 14	TRANSPORT INFORMATION						
UN #:	None						
<b>UN Shipping Name</b>	: None						
<b>UN Classification:</b>	None						
UN Packing Group:	: None						
Marine Pollutant:	☐ Yes Chemical name (wt%):  ☒ No						
<b>Special Precautions</b>	: None						
SECTION 15 I < EU Information >	REGULATORY INFORMATION						
Information on the	Label:						
Symbol & Indic	ation: Not required						
R-Phrase: Not required							
S-Phrase: Not required							
Not required	aponent(s):						
Special Precauti Not required	ions under 1999/45/EC Annex V:						
	n Relation to Protection of Man or the Environment:						
76/769/EEC:	Not regulated						
(EC)2037/2000:							
(EC)304/2003:	Not regulated						
Others:	None						

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## MATERIAL SAFETY DATA SHEET

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< 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 Name	Weight %
"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)

**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

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### 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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