IC1462-0303



## MATERIAL SAFETY DATA SHEET

MSDS #: Product Code:

0619B

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE

**COMPANY/UNDERTAKING** 

**Product Name:** Canon FINE Cartridge CL-52

Product Code: 0619B
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 HAZARDS IDENTIFICATION

#### **EU Classification:**

Not classified as dangerous.

## **Emergency Overview:**

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

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:

Black: May cause moderate irritation. Cyan: May cause slight irritation.

Magenta: Practically non-irritation is expected. (See SECTION 11)

## Skin:

Black and Cyan: Neither irritation nor sensitization is expected.

Magenta: May cause mild irritation and no sensitization. (See SECTION 11)

# **Chronic Effects:**

Not identified

## Medical Conditions Generally known to be Aggravated by Exposure:

Not identified



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< Ingredient(s) > Chemical Name /	CAS#/	Weight	EU Symbol/	USA	ACGIH TLV	EU ILV	DFG MAK
Generic Name	EC#	%	R-Phrase	OSHA PEL			
Glycerin	56-81-5 / 200-289-5	5 - 15	None / None	(as mist) Total dust TWA = 15 mg/m <sup>3</sup> Respirable fraction TWA = 5 mg/m <sup>3</sup>	(as mist) $TWA = 10 \text{ mg/m}^3$	Not established	Not established
Ethylene glycol	107-21-1 / 203-473-3	5 - 10	Xn / R22	Not established	(aerosol) Ceiling = 100 mg/m <sup>3</sup>	TWA = 20 ppm, 52 mg/m <sup>3</sup> STEL = 40 ppm, 104 mg/m <sup>3</sup>	10 ppm, 26 mg/m <sup>3</sup>
Ethylene urea (Contained in black ink)	120-93-4 / 204-436-4	5 - 10	Xi / R36	Not established	Not established	Not established	Not established
Isopropyl alcohol (Contained in cyan and magenta ink)	67-63-0 / 200-661-7	1 - 5	F / R11 Xi / R36 R67	TWA = 400 ppm, 980 mg/m <sup>3</sup>	TWA = 200 ppm, 492 mg/m <sup>3</sup> STEL = 400 ppm, 984 mg/m <sup>3</sup>	Not established	200 ppm, 500 mg/m <sup>3</sup>
Substituted naphthalene sulfonic acid (Contained in black ink)	Confidential	1 - 5	Xi / R41	Not established	Not established	Not established	Not established
Substituted phthalocyanine (Contained in cyan ink)	Confidential	1 - 5	Xi / R41 R52/53	Not established	Not established	Not established	Not established
Lactam (Contained in cyan and magenta ink)	Confidential	1 - 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

### < Carcinogen >

No component of this ink is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Part 3 of Annex VI to Regulation (EC) No 1272/2008.

## < PBT substance and vPvB substance >

No component of this ink is a PBT or vPvB substance under Regulation (EC) No 1907/2006.



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## 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

### SECTION 5 FIRE FIGHTING MEASURES

### Fire Fighting Measures:

### **Extinguishing Media:**

CO<sub>2</sub>, water, foam or dry chemicals

### **Unsuitable Extinguishing Media:**

None

## **Special Fire Fighting Procedures:**

None

#### **Unusual Fire and Explosion Hazards:**

None

### Fire and Explosive Properties (See also SECTION 9):

#### **Hazardous Combustion Products:**

CO, CO<sub>2</sub>, NOx and SOx

# **Other Properties:**

None

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## **Personal Precautions:**

Avoid contact with skin, eyes and clothing.

## **Environmental Precautions:**

Do not release to sewer, surface water or ground water.

## **Method for Cleaning Up:**

Wipe off with wet cloth or paper.

## SECTION 7 HANDLING AND STORAGE

## Handling:

Use with adequate ventilation.

Avoid contact with skin, eyes and clothing.

In case of contact, wash out the contaminated area immediately.

## Storage:

Keep in a cool and dry place.

Protect from sunlight.

Keep away from heat and flame. Keep out of the reach of children.

## **Specific Uses:**

Ink for Ink Jet Printer.

For more information, please refer to the instruction of this product.

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SECTION 8 EXPOSU	RE CONTRO	OLS / PERSONAL PROTECTION				
<b>Exposure Guidelines:</b>	Not established for this ink. (See also SECTION 3)					
Engineering Controls: Use adequate		e ventilation.				
Personal Protection Equipartory Protection:		☑ Not Required				
Eye/Face Protection:	Required	☑ Not Required				
Skin Protection:	-	☑ Not Required				
		EMICAL PROPERTIES				
Appearance:		Black, cyan and magenta liquid				
Odor:		Slight odor				
pH:		7 - 10				
Boiling Point/Range(°C):		Not available				
Melting Point/Range(°C):		Not available				
Decomposition Temperature(°C):		Not available				
Flash Point(°C):		Black: None (Tag. Closed Cup.)				
1 msn 1 omt( °C).		Cyan and Magenta: 60 - 65 (Tag. Closed Cup. Combustion is not				
	<u>:</u>	sustainable.) (Estimate)				
Flammable (Explosive) Limits:		Not available				
Autoignition Temperature (°C):		Not available				
Flammability:	) ]	Black: Neither flammable nor combustible.  Cyan and Magenta: Classified as "combustible liquid" under OSHA-HCS.  Not classified as "flammable" or "combustible" under FHSA.  Not classified as "flammable" under 1999/45/EC.				
<b>Explosive Properties:</b>	]	None (Estimate)				
Oxidizing Properties:	]	None (Estimate)				
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 STABIL	SECTION 10 STABILITY AND REACTIVITY					
Stability:		X Stable ☐ Unstable				
Conditions to Avoid:		None				
Materials to Avoid:		Acids, bases, oxidizing materials and reducing agents				
<b>Hazardous Decomposition</b>	Products:	CO, CO <sub>2</sub> , NOx and SOx				
Hazardous Polymerization	: [	☐ May Occur ☑ Will Not Occur				
Conditions to Avoid:	<u> 1</u>	None				



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## SECTION 11 TOXICOLOGICAL INFORMATION

**Acute Toxicity:** 

Inhalation:

Not available

**Ingestion:** 

Black:  $LD_{50} > 2000 \text{ mg/kg (rat)}$ 

Cyan and Magenta:  $LD_{50} > 2000 \text{ mg/kg (rat) (Estimate)}$ 

OECD Guidelines No. 423 (2001), 96/54/EC Method B1 tris

Eye:

Black: Moderately irritating (rabbit) Cyan: Slightly irritating (rabbit) (Estimate)

Magenta: Practically non-irritating (rabbit) (Estimate)

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

Skin:

Black: Not irritant (rabbit)

Cyan: Not irritant (rabbit) (Estimate) Magenta: Mild irritant (rabbit) (Estimate)

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

**Sensitization:** 

Black: Non-sensitizer (guinea pig)

Cyan and Magenta: Non-sensitizer (guinea pig) (Estimate) 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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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 Ef	fects: Not available				
SECTION 13 DISPOSAL CONSIDERATIONS  Method of Disposal:  Disposal should be subject to federal, state and local laws.					
SECTION 14	TRANSPORT INFORMATION				
UN #:	None				
<b>UN Shipping Nam</b>	None None				
<b>UN Classification</b>	None None				
<b>UN Packing Grou</b>	p: None				
Marine Pollutant:	Yes Chemical name (wt%):  No				
Special Precaution	ns: None				
SECTION 15 REGULATORY INFORMATION					
	< EU Information > Information on the Label:				
Symbol & Ind R-Phrase:	ication: Not required				
Not required	d				
S-Phrase: Not required	d				
Dangerous Co Not required					
Special Precau	ntions under 1999/45/EC Annex V:				
Not required	d				
<b>Specific Provision</b>	s in Relation to Protection of Man or the Environment:				
(EC) No 1907/	2006 Annex XVII (Restrictions): Not regulated				
(EC) No 2037/	2000: Not regulated				
(EC) No 689/2	008: Not regulated				
Others:	None				



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### < USA Information >

#### Information on the Labelunder 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)5 - 10"Copper Compounds" (Contained in cyan ink)1 - 5(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>

R11: Highly flammable.

R22: Harmful if swallowed.

R36: Irritating to eyes.

R41: Risk of serious damage to eyes.

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

R67: Vapours may cause drowsiness and dizziness.

<Revised information from the previous version>

Entirely revised

<Term explanation>

Estimate: Estimate based on data of similar ink or the ingredient(s).



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#### **Literature References:**

- 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 (EC) No 1907/2006 Annex XVII (Restriction), 1999/45/EC
- EU Regulation (EC) No 2037/2000, (EC) No 689/2008, (EC) No 1907/2006, (EC) No 1272/2008
- 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, 2000/39/EC and 2006/15/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.

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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