

MSDS #: IC1462-0101
Product Code: 0619B

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon FINE Cartridge CL-52

Product Code: 0619B

Manufacturer: Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph# 03-3758-2111

Supplier: Canon USA, Inc., One Canon Plaza, Lake Success, NY, 11042, USA

Phone #: 1-800-OK-CANON 24 Hr. Emergency CHEMTREC # 1-800-424-9300

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

< Ingredient(s) >	ient(s) >
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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	ACGIH ILV	EUILV	DIG MAK
Glycerin	56-81-5 / 200-289-5	8 - 12	None / None	$(as mist) \\ Total dust \\ TWA = 15 mg/m^3 \\ Respirable fraction \\ TWA = 5 mg/m^3$	(as mist) TWA = 10 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 ³	TWA = 20 ppm, 52 mg/m ³ STEL = 40 ppm, 104 mg/m ³	10 ppm, 26 mg/m ³
Isopropyl alcohol (Contained in cyan and magenta ink)	67-63-0 / 200-661-7	1 - 3	F / R11 Xi / R36 R67	TWA = 400 ppm, 980 mg/m ³	TWA = 200 ppm, 492 mg/m ³ STEL = 400 ppm, 984 mg/m ³	Not established	200 ppm, 500 mg/m ³
Substituted naphthalene sulfonic acid (Contained only in black ink)	Confidential	1 - 3	Xi / R41	Not established	Not established	Not established	Not established
Substituted phthalocyanine (Contained only in cyan ink)	Confidential	1 - 3	Xi / R41 R52/53	Not established	Not established	Not established	Copper and its compounds Inhalable fraction 1.0 mg/m ³
Heterocyclic compound (Contained only in black ink)	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
Lactam (Contained in cyan and magenta ink)	Confidential	2 - 6	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. (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

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.

Eye:

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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SECTION 5 FIRE FIG	GHTING MEASURES
Fire Fighting Measures:	
Extinguishing Media:	
CO ₂ , water, foam or dr	
Unsuitable Extinguishing	g Media:
None	
Special Fire Fighting Pr	ocedures:
None	
Unusual Fire and Explosi	ion Hazards:
None	
Fire and Explosive Propertie	
Hazardous Combustion 1	
CO, CO ₂ , NOx and SO	<u>X</u>
Other Properties:	
None	
SECTION 6 ACCIDE	NTAL RELEASE MEASURES
Personal Precautions: Avoid contact with skin,	eves and clothing
	cycs and clothing.
Environmental Precautions:	surface water or ground water.
Method for Cleaning Up:	ground water.
Wipe off with wet cloth o	r nanor
wipe off with wet cloth o	т рарет.
SECTION 7 HANDLI	NG AND STORAGE
Handling:	
Use with adequate ventila	
Avoid contact with skin,	
In case of contact, wash o	out the contaminated area immediately.
Storage:	
Keep in a cool and dry pla	ace.
Protect from sunlight.	
	flame. Keep out of the reach of children.
Specific Uses:	
Ink for Ink Jet Printer.	
For more information, pie	ease refer to the instruction of this product.
SECTION 8 EXPOSU	TRE CONTROLS / PERSONAL PROTECTION
Exposure Guidelines:	
Not established for this in	k. (See also SECTION 2)
Engineering Controls:	
Use adequate ventilation	
Personal Protection Equipm	ent(s):
Respiratory Protection:	
•	Not Required
Eye/Face Protection:	Required
	Not Required
Skin Protection:	Not Required Required Not Required



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SECTION 9 PHYSICAL AND CHI	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.) Cyan and Magenta: Estimate: 60 - 65 (Tag. Closed Cup. Combustion is not sustainable.)
Flammable (Explosive) Limits:	Not available
Autoignition Temperature ($^{\circ}$ 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.
Explosive Properties:	None
Oxidizing Properties:	None
Vapor Pressure :	Not available
Vapor Density :	Not available
Density / Specific Gravity:	1.0 - 1.1
Water Solubility :	Miscible
Fat Solubility:	Not available
$\label{partition} \textbf{Partition Coefficient (n-Octanol/Water):}$	Not available
Percent Volatile (%):	60 - 80
Evaporation Rate:	Not available
Viscosity (mPa s):	1-3
SECTION 10 STABILITY AND RE	ACTIVITY
Stability:	Stable Unstable
Conditions to Avoid:	None
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents
Hazardous Decomposition Products:	CO, CO ₂ , NOx and SOx
Hazardous Polymerization:	☐ May Occur ☑ Will Not Occur
Conditions to Avoid:	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: [Data of similar composition ink]: $LD_{50} > 2000 \text{ mg/kg}$ (rat)

OECD Guidelines No.423 (2001)

96/54/EC Method B1 tris

Eye:

Black: Moderately irritating (rabbit)

Cyan: [Data of similar composition ink]: Slightly irritating (rabbit)

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

OECD Guidelines No.405 (2002)

92/69/EEC Method B5

Skin:

Black: Not irritant (rabbit)

Cyan: [Data of similar composition ink]: Not irritant (rabbit) Magenta: [Data of similar composition ink]: Mild irritant (rabbit)

OECD Guidelines No.404 (2002)

92/69/EEC Method B4

Sensitization:

Black: Non-sensitizer (guinea pig)

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

OECD Guidelines No.406 (1992)

96/54/EC Method B6

Mutagenicity:

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

Reproductive Toxicity:

Not available

Carcinogenicity:

Not available

Others:

Not available

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MATERIAL SAFETY DATA SHEET

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SECTION 12 E	COLOGICAL INFORMATION			
Mobility:	Not available			
Persistence / Degradability:	Not available			
Bioaccumulation:	Not available			
Ecotoxicity:	Not available			
Other Adverse Effect	Not available			
	ISPOSAL CONSIDERATIONS			
Method of Disposal: Disposal should b	e subject to federal, state and local laws.			
SECTION 14 T	RANSPORT INFORMATION			
UN #:	None			
UN Shipping Name:	None			
UN Classification:	None			
UN Packing Group:	None			
Marine Pollutant:	☐ Yes Chemical name (wt%): ☑ No			
Special Precautions:	None			
< EU Information >	EGULATORY INFORMATION			
Information on the La	abel:			
Symbol & Indicat	ion: Not required			
R-Phrase: Not required				
S-Phrase: Not required				
Dangerous Component(s): None				
Special Precaution Not required	ons under 1999/45/EC Annex V:			
Specific Provisions in	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			



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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):

None

SARA Title III §313:

Chemical Name	Weight %
"Ethylene glycol" (107-21-1)	5 - 10
"Copper Compounds" (Contained only in cyan ink)	1 - 3
(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.

Others: This product contains a chemical substance which is being introduced under a Low Volume Chemical

Permit granted under section 21U(2) of the Industrial Chemicals (Notification and Assessment) Act 1989.

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.

R67: Vapours may cause drowsiness and dizziness.

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



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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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