

MATERIAL SAFETY DATA SHEET

MSDS #: ______ Product Code: 09

IC1201-0101 0917A / F45-1231

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon BJ Cartridge BC-60

Product Code: 0917A / F45-1231

Manufacturer: Canon Inc.

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

Supplier: Canon Singapore Pte Ltd

1 HarbourFront Avenue, #04-01, Keppel Bay Tower, Singapore 098632

cspl_msds@canon.com.sg

Use of the Product: Ink for Ink Jet Printer

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

< 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	5 - 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
Thiodiglycol (Contained only in black ink)	111-48-8 / 203-874-3	2 - 6	Xi / R36	Not established	Not established	Not established	Not established
Diethylene glycol (Contained only in slightly yellow ink)	111-46-6 / 203-872-2	2 - 6	Xn / R22	Not established	Not established	Not established	10 ppm, 44 mg/m
Isopropyl alcohol (Contained only in black ink)	67-63-0 / 200-661-7	2 - 6	F / R11 Xi / R36 R67	TWA = 400 ppm, 980 mg/m ³	TWA = 400 ppm, 983 mg/m ³ STEL = 500 ppm, 1230 mg/m ³	Not established	200 ppm, 500 mg/m ³
Ammonia derivative (Contained only in black ink)	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
Water	7732-18-5 / 231-79-12	65 - 85	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 set of two colors ink cartridges. (Black and Slightly 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.

Eve:

May cause minimal irritation. (See SECTION 11)

Skin:

May cause mild irritation and 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	SECTION 5 FIRE FIGHTING MEASURES						
Fire Fighting Measures:							
Extinguishing Media:							
CO ₂ , water, foam or dr	y chemicals						
Unsuitable Extinguishing Media: None							
Special Fire Fighting Pr None	Special Fire Fighting Procedures: None						
Unusual Fire and Explosion Hazards: None							
Fire and Explosive Propertie	es (See also Section 9):						
Hazardous Combustion 1							
CO, CO ₂ , NOx and SO)x						
Other Properties:							
None							
SECTION 6 ACCIDE	NTAL RELEASE MEASURES						
Personal Precautions:							
Avoid contact with skin,	eyes and clothing.						
Environmental Precautions:							
	surface water or ground water.						
Method for Cleaning Up:							
Wipe off with wet cloth o	r paper.						
SECTION 7 HANDLI	NG AND STORAGE						
Handling:							
Use with adequate ventila	ation.						
Avoid contact with skin,	· ·						
In case of contact, wash out the contaminated area immediately.							
Storage:							
	ace. Protect from sunlight.						
Keep away from heat and flame. Keep out of the reach of children.							
Specific Uses:	entidren.						
Ink for Ink Jet Printer.							
For more information, please refer to the instruction of this product.							
i or more importantion, pre	ase refer to the instruction of this product						
	•						
	IRE CONTROLS / PERSONAL PROTECTION						
SECTION 8 EXPOSU Exposure Guidelines: Not established for this in	RE CONTROLS / PERSONAL PROTECTION						
Exposure Guidelines:	RE CONTROLS / PERSONAL PROTECTION						
Exposure Guidelines: Not established for this in	RE CONTROLS / PERSONAL PROTECTION k. (See also SECTION 2)						
Exposure Guidelines: Not established for this in Engineering Controls:	RE CONTROLS / PERSONAL PROTECTION k. (See also SECTION 2)						
Exposure Guidelines: Not established for this in Engineering Controls: Use adequate ventilation	RE CONTROLS / PERSONAL PROTECTION k. (See also SECTION 2) ent(s): Required						
Exposure Guidelines: Not established for this in Engineering Controls: Use adequate ventilation Personal Protection Equipment	RE CONTROLS / PERSONAL PROTECTION k. (See also SECTION 2) ent(s): Required Not Required Required Required						
Exposure Guidelines: Not established for this in Engineering Controls: Use adequate ventilation Personal Protection Equipme Respiratory Protection: Eye/Face Protection:	RE CONTROLS / PERSONAL PROTECTION k. (See also SECTION 2) ent(s): Required Not Required Required Not Required Not Required						
Exposure Guidelines: Not established for this in Engineering Controls: Use adequate ventilation Personal Protection Equipments Respiratory Protection:	RE CONTROLS / PERSONAL PROTECTION k. (See also SECTION 2) ent(s): Required Not Required Required Required						

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SECTION 9 PHYSICAL AND CHI	EMICAL PROPERTIES		
Appearance:	Black and slightly yellow liquid		
Odor:	Slight odor		
pH:	Black: 9.5 - 10.5, Slightly yellow: 6.7 - 7.7		
Boiling Point/Range(°C):	Not available		
Melting Point/Range(°C):	Not available		
Decomposition Temperature(°C):	Not available		
Flash Point(°C):	Black : Estimate 45 - 50 (Tag Closed Cup. Combustion is not sustainable.) Slightly yellow : None (Tag Closed Cup)		
Flammable (Explosive) Limits:	Not available		
Autoignition Temperature(°C):	Black : Not available Slightly yellow : 456 (ASTM)		
Flammability:	Black: Classified as "Combustible liquid" under OSHA-HCS. Not classified as "flammable" or "combustible" under FHSA. Not classified as "flammable" under 1999/45/EC. Slightly yellow: Neither flammable nor combustible.		
Explosive Properties:	None		
Oxidizing Properties:	None		
Vapor Pressure :	Not available		
Vapor Density :	Not available		
Density / Specific Gravity:	1.04 - 1.10		
Water Solubility :	Miscible		
Fat Solubility:	Not available		
Partition Coefficient (n-Octanol/Water):	Not available		
Percent Volatile (%):	65 - 85		
Evaporation Rate:	Not available		
Viscosity (mPa s):	1.7 - 2.6		
SECTION 10 STABILITY AND RE.	ACTIVITY		
Stability:			
Conditions to Avoid:	None		
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents		
Hazardous Decomposition Products:	CO, CO ₂ , NOx, Ammonia 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:

Not available

Eye:

Black: Minimal irritant, Maximum Group Mean Score = 4.7, Class 3 (rabbit)

OECD Guidelines No.405 (1987)

92/69/EEC Method B5

Slightly yellow: Not available

Skin:

Black: Mild irritant, Primary Irritation Index = 0.7 (rabbit)

OECD Guidelines No.404 (1992)

92/69/EEC Method B4

Slightly yellow: Not available

Sensitization:

Black: Mild sensitizer, Sensitization rate = 20 % (2/10) (guinea pig)

OECD Guidelines No.406 (1992)

96/54/EC Method B6

Slightly yellow: Not available

Mutagenicity:

Ames test:

All colors: Negative (test strains: S.typhimurium)

Reproductive Toxicity:

Not available

Carcinogenicity:

Not available

Others:

Not available

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	ECOLOGICAL INFORMATION					
Mobility:	Not available					
Persistence / Degradability:	Not available					
Bioaccumulation:	Not available					
Ecotoxicity:	Not available					
Other Adverse Effe	Not available 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					
UN Shipping Name	: None					
UN Classification:	None					
UN Packing Group:	None					
Marine Pollutant:	☐ Yes Chemical name (wt%): ☑ No					
Special Precaution	s: None					
SECTION 15 REGULATORY INFORMATION < EU Information > Information on the Label:						
Symbol & Indic	ation: Not required					
R-Phrase: Not required						
S-Phrase: Not required						
Dangerous Con None	nponent(s):					
Special Precaut Not required	tions under 1999/45/EC Annex V:					
Specific Provisions i	in 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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< 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 %

None

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.

R67: Vapours may cause drowsiness or dizziness.

<Revised information from the previous version>

Entirely revised.



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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 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, 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.

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