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# MATERIAL SAFETY DATA SHEET

MSDS #:

IC1300-0101 Product Code: 0897A / F45-1421

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE **SECTION 1** 

**COMPANY/UNDERTAKING** 

**Product Name:** Canon BJ Cartridge BC-23

0897A / F45-1421 **Product Code:** 

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 <sup>3</sup>	Not established	Not established
Diethylene glycol	111-46-6 / 203-872-2	2 - 6	Xn / R22	Not established	Not established	Not established	10 ppm, 44 mg/m <sup>3</sup>
Triol	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:**

Ink cartridge containing black liquid ink 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:

May cause minimal irritation. (See SECTION 11)

#### Skin:

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 FIGHTING MEASURES  Fine 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 and CO <sub>2</sub>						
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 out of the reach of children.						
Specific Uses: Ink for Ink Jet Printer.						
For more information, please refer to the instruction of this product.						
SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION						
Exposure Guidelines:  Not established for this ink. (See also SECTION 2)						
Engineering Controls: Use adequate ventilation.						
Personal Protection Equipment(s):						
Respiratory Protection: ☐ Required  Not Required						
Eye/Face Protection: ☐ Required ☐ Not Required						
Skin Protection: ☐ Required ☑ Not Required						

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MSDS #: IC1300-0101 Product Code: 0897A / F45-1421

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES				
Appearance:	Black liquid			
Odor:	Slight odor			
pH:	7.0 - 9.0			
<b>Boiling Point/Range(°C):</b>	Not available			
Melting Point/Range( $^{\circ}$ C):	Not available			
<b>Decomposition Temperature</b> ( ${}^{\circ}C$ ):	Not available			
Flash Point(°C):	None (Cleveland open cup)			
Flammable (Explosive) Limits:	Not available			
Autoignition Temperature ( $^{\circ}$ C):	Not available			
Flammability:	Neither flammable nor combustible.			
<b>Explosive Properties:</b>	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			
<b>Evaporation Rate:</b>	Not available			
Viscosity (mPa s):	1.8 - 2.4			
CECTION 10 CTARN ITS AND D	E A CONTAINS			
SECTION 10 STABILITY AND R				
Stability:	■ Stable □ Unstable			
Conditions to Avoid:	None			
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents			
<b>Hazardous Decomposition Products:</b>	CO and CO,			
Hazardous Polymerization:	☐ May Occur  ☑ Will Not Occur			
Conditions to Avoid:	None			

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IC1300-0101

**SECTION 11** TOXICOLOGICAL INFORMATION

**Acute Toxicity:** 

**Inhalation:** 

Not available

**Ingestion:** 

 $LD_{50} > 2000$  mg/kg, 0/10 mortalities at 2000 mg/kg (rat)

OECD Guidelines No.401 (1987)

92/69/EEC Method B1

Eye:

Minimal irritant, Maximum Group Mean Score = 5.3, Class 3 (rabbit)

OECD Guidelines No.405 (1987)

92/69/EEC Method B5

Skin:

Non-irritant, Primary Irritation Index = 0.0 (rabbit)

OECD Guidelines No.404 (1992)

92/69/EEC Method B4

**Sensitization:** 

Non-sensitizer, Sensitization rate = 0 % (0/10) (guinea pig)

OECD Guidelines No.406 (1992)

92/69/EEC Method B6

**Mutagenicity:** 

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

**Reproductive Toxicity:** 

Not available

Carcinogenicity:

Not available

Others:

Not available

Date of Issue: Revised: July 29, 1998 October 14, 2003

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SECTION 12 E	CCOLOGICAL INFORMATION				
<b>Mobility:</b>	Not available				
Persistence / Degradability:	Not available				
Bioaccumulation:	Not available				
<b>Ecotoxicity:</b>	Not available				
Other Adverse Effec	Not available Not available				
Method of Disposal:	DISPOSAL CONSIDERATION e subject to federal, state and local laws.				
SECTION 14 T	TRANSPORT INFORMATION				
UN #:	None				
<b>UN Shipping Name:</b>	None				
UN Classification:	None				
<b>UN Packing Group:</b>	None				
Marine Pollutant:	☐ Yes Chemical name (wt%):  ☑ No				
<b>Special Precautions:</b>	None				
< EU Information > Information on the I	REGULATORY INFORMATION  Label: ation: 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	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				

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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>

R22: Harmful if swallowed.

<Revised information from the previous version>

Entirely revised.

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MSDS #: IC1300-0101

Product Code: 0897A / F45-1421

#### 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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