

MSDS #: IC1143-0101
Product Code: 0896A / F45-1111

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

**COMPANY/UNDERTAKING** 

**Product Name:** Canon BJ FAX Cartridge BX-20

**Product Code:** 0896A / F45-1111

**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	
Ethylene glycol	107-21-1 / 203-473-3	2 - 6	Xn / R22	Not established	(aerosol) Ceiling = 100 mg/m³	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>	
Isopropyl alcohol	67-63-0 / 200-661-7	2 - 6	F/R11 Xi/R36 R67	TWA = 400 ppm, 980 mg/m <sup>3</sup>	TWA = 400 ppm, 983 mg/m <sup>3</sup> STEL = 500 ppm, 1230 mg/m <sup>3</sup>	Not established	200 ppm, 500 mg/m <sup>3</sup>	
Ammonia derivative	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established	
Water	7732-18-5 / 231-791-2	60 - 85	None / None	Not established	Not established	Not established	Not established	

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< Carcinogen >

Chemical Name CAS # Reference

None

### 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.

Glycerin mist may cause physical irritation and difficulty breathing.

Over exposure to ethylene glycol and/or isopropyl alcohol may cause headache, nausea, dizziness, vomiting, drowsiness, cough and sore throat.

### **Ingestion:**

Ingestion of glycerin, ethylene glycol and/or isopropyl alcohol may cause nausea, drowsiness, dizziness, vomiting, abdominal pain, headache, sore throat and dullness.

### Eye:

May cause minimal irritation based on the animal test data of this ink. (See SECTION 11)

#### Skin:

May be no irritation and no sensitization on the animal test data of this ink. (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 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:							
<b>Extinguishing Media:</b>							
CO <sub>2</sub> , water, foam or dry	/ chemicals						
Unsuitable Extinguishing None	g Media:						
Special Fire Fighting Pro None	ocedures:						
Unusual Fire and Explos None	sion Hazards:						
Fire and Explosive Propertie	es (See also Section 9):						
<b>Hazardous Combustion</b>	Products:						
	CO, CO <sub>2</sub> and NOx						
Other Properties:							
None							
SECTION 6 ACCIDE	NTAL RELEASE MEASURES						
<b>Personal Precautions:</b>							
Avoid contact with skin, ey	ves and clothing.						
Avoid breathing vapor or r	nist.						
<b>Environmental Precautions:</b>							
	arface water or ground water.						
<b>Method for Cleaning Up:</b>							
Wipe off with wet cloth or	paper.						
SECTION 7 HANDLI	NG AND STORAGE						
Handling:							
Avoid breathing vapor or r	nist.						
	ves and clothing. When contact, wash out immediately.						
Use with adequate ventilat	on.						
Storage:							
Keep in a cool and dry place							
Keep away from heat and f Keep out of reach of childr							
Specific Uses:							
Ink for Ink Jet Printer.							
	ise refer to the instruction of this product.						
SECTION 8 EXPOSU	TRE CONTROLS / PERSONAL PROTECTION						
	RE CONTROLS / TERSONAL TROTECTION						
Exposure Guidelines:  Not established for this inle	x. (Also refer to SECTION 2)						
<b>Engineering Controls:</b>							
Use adequate ventilation.							
Personal Protection Equipm	ent(s):						
<b>Respiratory Protection:</b>	Required						
	➤ Not Required						
<b>Eye/Face Protection:</b>	Required						
	■ Not Required						
Skin Protection:	Required						
	■ Not Required						

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# MATERIAL SAFETY DATA SHEET

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES				
Appearance:	Black liquid			
Odor:	Slight odor			
pH:	9.5 - 10.5			
<b>Boiling Point/Range(°C):</b>	Not available			
<b>Melting Point/Range(°C):</b>	Not available			
<b>Decomposition Temperature</b> ( ${}^{\circ}$ C):	Not available			
Flash Point(°C):	49.0 (Tag.closed cup. Do not sustain combustion.)			
Flammable (Explosive) Limits:	Not available			
Autoignition Temperature (°C):	Not available			
Flammability:	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			
Oxidizing Properties:	None			
Vapor Pressure :	Not available			
Vapor Density:	Not available			
Density / Specific Gravity:	1.04			
Water Solubility:	Miscible			
Fat Solubility:	Not available			
Partition Coefficient (n-Octanol/Water):	Not available			
Percent Volatile (%):	60 - 85			
<b>Evaporation Rate:</b>	Not available			
Viscosity (mPa s):	1.5 - 2.1			
SECTION 10 STABILITY AND R	EACTIVITY			
Stability:				
Conditions to Avoid:	None			
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents			
<b>Hazardous Decomposition Products:</b>	CO, CO <sub>2</sub> , NOx and Ammonia			
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:

Minimal irritant, Maximum Group Mean Score = 2.7, 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)

96/54/EC Method B6

### **Mutagenicity:**

Ames test: Negative (test strains: S.typhimurium)

### **Reproductive Toxicity:**

Not available

### Carcinogenicity:

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.

### Others:

Not available

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Mobility: Not available  Persistence / Degradability: Not available  Bioaccumulation: Not available  Ecotoxicity: Not available  Cother Adverse Effects: Not available  SECTION 13 DISPOSAL CONSIDERATION  Method of Disposal: Disposal may 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 Precautions: None  SECTION 15 REGULATORY INFORMATION  < EU Information > Information on the Label: Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s): None		COLOG	ICAL INFORMATION				
Bioaccumulation: Not available  Ecotoxicity: Not available Other Adverse Effects: Not available  SECTION 13 DISPOSAL CONSIDERATION  Method of Disposal: Disposal may 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:	•						
Ecotoxicity: Not available Other Adverse Effects: Not available  SECTION 13 DISPOSAL CONSIDERATION  Method of Disposal:     Disposal may 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 Precautions: None  SECTION 15 REGULATORY INFORMATION  < EU Information > Information on the Label: Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):							
Other Adverse Effects: Not available  SECTION 13 DISPOSAL CONSIDERATION  Method of Disposal:     Disposal may 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 Precautions: None  SECTION 15 REGULATORY INFORMATION  < EU Information > Information on the Label: Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):	Bioaccumulation:		Not available				
SECTION 13 DISPOSAL CONSIDERATION  Method of Disposal:     Disposal may 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:	<b>Ecotoxicity:</b>		Not available				
Method of Disposal:  Disposal may 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 Precautions: None  SECTION 15 REGULATORY INFORMATION  < EU Information > Information on the Label:  Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):	Other Adverse Effects:		Not available				
Disposal may 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 Precautions: None  SECTION 15 REGULATORY INFORMATION  < EU Information > Information on the Label: Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):	SECTION 13 D	ISPOSAI	L CONSIDERATION				
UN #: None  UN Classification: None  UN Packing Group: None  Marine Pollutant: Yes Chemical name (wt%):  No Special Precautions: None  SECTION 15 REGULATORY INFORMATION  < EU Information > Information on the Label: Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):		ubject to f	ederal, state and local laws.				
UN Classification: UN Packing Group: UN Packing Group: Marine Pollutant:  Yes Chemical name (wt%):  No Special Precautions: None  SECTION 15 REGULATORY INFORMATION  < EU Information > Information on the Label: Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):	SECTION 14 T	RANSPO	ORT INFORMATION				
UN Classification: None  UN Packing Group: None  Marine Pollutant:  Yes Chemical name (wt%): No  Special Precautions: None  SECTION 15 REGULATORY INFORMATION  < EU Information > Information on the Label: Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):	UN #:	None					
UN Packing Group:  Marine Pollutant:  Yes Chemical name (wt%):  No  Special Precautions:  None  SECTION 15 REGULATORY INFORMATION  < EU Information >  Information on the Label:  Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):	<b>UN Shipping Name:</b>	None					
Marine Pollutant: ☐ Yes Chemical name (wt%): ☐ No  Special Precautions: None  SECTION 15 REGULATORY INFORMATION  < EU Information > Information on the Label: Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):	<b>UN Classification:</b>	None					
Special Precautions: None  SECTION 15 REGULATORY INFORMATION  < EU Information > Information on the Label: Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):	<b>UN Packing Group:</b>	None					
SECTION 15 REGULATORY INFORMATION  < EU Information > Information on the Label: Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):	Marine Pollutant:		Chemical name (wt%):				
< EU Information > Information on the Label: Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):	<b>Special Precautions:</b>	None					
Information on the Label:  Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):	SECTION 15 REGULATORY INFORMATION						
Symbol & Indication: Not required  R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):	< EU Information >						
R-Phrase: Not required  S-Phrase: Not required  Dangerous Component(s):							
Not required  S-Phrase: Not required  Dangerous Component(s):	•	tion: Not	required				
S-Phrase: Not required  Dangerous Component(s):							
	S-Phrase:						
		onent(s):	:				
Special Precautions under 1999/45/EC Annex V: Safety data sheet available for professional user on request.							
Specific Provisions in Relation to Protection of Man or the Environment:	-						
<b>76/769/EEC:</b> Not regulated	Safety data shee		to Protection of Man or the Environment:				
(EC)2037/2000: Not regulated	Safety data sheep Specific Provisions in	Relation					
(EEC)2455/92: Not regulated	Safety data shee Specific Provisions in 76/769/EEC:	Relation  Not regul	ated				
Others: None	Safety data shee Specific Provisions in 76/769/EEC: (EC)2037/2000:	Not regul	ated ated				

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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 NameWeight %"Ethylene glycol" (107-21-1)2 - 6

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 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, (EEC)2455/92
- 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 Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft.

TWA: Time Weighted Average.

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 Act 1985.

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