

Canon

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**MATERIAL SAFETY DATA SHEET**

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PRODUCT NAME: BCI-6BK

DESCRIPTION: Ink Tank

USED WITH MACHINE(S): BJC8200, i865, i905D, i9100, i950, i965, S 800 (BJ, S 820 (BJ), S 820D (BJ), S 830D (BJ), S 900 (BJ), S 9000 (BJ)

MANUFACTURER: Canon Inc.  
30-2, Shimomaruko 3-Chome, Ohta-Ku  
Tokyo 146, Japan  
Phone: 03-3758-2111

DISTRIBUTOR: Canon UK Limited  
Woodhatch  
Reigate  
Surrey  
Phone: 01737 220000

DATE PREPARED: 22/12/00

DATE REVISED: 23/05/03

**UK MSDS REF: MSDS3176**



## MATERIAL SAFETY DATA SHEET

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name:** Canon Ink Tank BCI-6BK

**Product Code:** 4705A / F47-3221

**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 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/m <sup>3</sup> Respirable fraction TWA = 5 mg/m <sup>3</sup>	(as mist) TWA = 10 mg/m <sup>3</sup>	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>
Isopropyl alcohol	67-63-0 / 200-661-7	1 - 3	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>
Ammonia derivative	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
Water	7732-18-5 / 231-791-2	55 - 75	None / None	Not established	Not established	Not established	Not established

**MATERIAL SAFETY DATA SHEET**

## &lt; Carcinogen &gt;

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 tank 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:**

May cause no irritation and mild 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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**MATERIAL SAFETY DATA SHEET**


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**SECTION 5 FIRE FIGHTING MEASURES**
**Fire Fighting Measures:**
**Extinguishing Media:**

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

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**Unsuitable Extinguishing Media:**

None

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**Special Fire Fighting Procedures:**

None

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**Unusual Fire and Explosion Hazards:**

None

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**Fire and Explosive Properties (See also Section 9):**
**Hazardous Combustion Products:**

CO, CO<sub>2</sub> and NO<sub>x</sub>

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**Other Properties:**

None

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**
**Personal Precautions:**

Avoid contact with skin, eyes and clothing.

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**Environmental Precautions:**

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

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**Method for Cleaning Up:**

Wipe off with wet cloth or paper.

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**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.

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**Storage:**

Keep in a cool and dry place. Protect from sunlight.

Keep away from heat and flame.

Keep out of the reach of children.

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**Specific Uses:**

Ink for Ink Jet Printer.

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

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**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**
**Exposure Guidelines:**

Not established for this ink. (See also SECTION 2)

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**Engineering Controls:**

Use adequate ventilation.

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**Personal Protection Equipment(s):**

**Respiratory Protection:**  Required  
 Not Required

**Eye/Face Protection:**  Required  
 Not Required

**Skin Protection:**  Required  
 Not Required




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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Black liquid
<b>Odor:</b>	Slight odor
<b>pH:</b>	7 - 9
<b>Boiling Point/Range(°C):</b>	Not available
<b>Melting Point/Range(°C):</b>	Not available
<b>Decomposition Temperature(°C):</b>	Not available
<b>Flash Point(°C):</b>	Estimate : 55 - 57 (Tag Closed Cup. Combustion is not sustainable.)
<b>Flammable (Explosive) Limits:</b>	Not available
<b>Autoignition Temperature(°C):</b>	Not available
<b>Flammability:</b>	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
<b>Oxidizing Properties:</b>	None
<b>Vapor Pressure :</b>	Not available
<b>Vapor Density :</b>	Not available
<b>Density / Specific Gravity:</b>	1.04 - 1.10
<b>Water Solubility :</b>	Miscible
<b>Fat Solubility :</b>	Not available
<b>Partition Coefficient (n-Octanol/Water):</b>	Not available
<b>Percent Volatile (%):</b>	55 - 75
<b>Evaporation Rate:</b>	Not available
<b>Viscosity (mPa s):</b>	2 - 3

**SECTION 10 STABILITY AND REACTIVITY**

<b>Stability:</b>	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
<b>Conditions to Avoid:</b>	None
<b>Materials to Avoid:</b>	Acids, bases, oxidizing materials and reducing agents
<b>Hazardous Decomposition Products:</b>	CO, CO <sub>2</sub> , NOx and Ammonia
<b>Hazardous Polymerization:</b>	<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur
<b>Conditions to Avoid:</b>	None

**SECTION 11 TOXICOLOGICAL INFORMATION**

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**Acute Toxicity:****Inhalation:**Not available

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**Ingestion:**Not available

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**Eye:**

[Data of similar composition ink] Minimal irritant (rabbit)  
OECD Guidelines No.405 (1987)  
92/69/EEC Method B5

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**Skin:**

[Data of similar composition ink] Non irritant (rabbit)  
OECD Guidelines No.404 (1992)  
92/69/EEC Method B4

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**Sensitization:**

[Data of similar composition ink] Mild sensitizer (guinea pig)  
OECD Guidelines No.406 (1992)  
96/54/EC Method B6

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

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**Reproductive Toxicity:**Not available

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**Carcinogenicity:**Not available

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**Others:**Not available

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**Canon****MATERIAL SAFETY DATA SHEET****SECTION 12 ECOLOGICAL INFORMATION****Mobility:** Not available**Persistence /  
Degradability:** Not available**Bioaccumulation:** Not available**Ecotoxicity:** Not available**Other Adverse Effects:** Not available**SECTION 13 DISPOSAL CONSIDERATION****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  No **Chemical name (wt%):****Special Precautions:** None**SECTION 15 REGULATORY INFORMATION**

&lt; EU Information &gt;

**Information on the Label:****Symbol & Indication:** Not required**R-Phrase:**

Not required

**S-Phrase:**

Not required

**Dangerous Component(s):**

None

**Special Precautions under 1999/45/EC Annex V:**

Not required

**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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## &lt; USA Information &gt;

**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:**

<b>Chemical Name</b>	<b>Weight %</b>
<u>"Ethylene glycol " (107-21-1)</u>	<u>5 - 10</u>

**California Proposition 65:**

<b>Chemical Name</b>	<b>Weight %</b>
<u>None</u>	

## &lt; Canada Information &gt;

**WHMIS Controlled Product:** Not applicable (Manufactured article)

## &lt; Australia Information &gt;

**Statement of Hazardous Nature:** Not classified as hazardous according to criteria of NOHSC.


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**SECTION 16 OTHER INFORMATION**

## &lt;R phrase list&gt;

- R11 : Highly flammable.
- R22 : Harmful if swallowed.
- R36 : Irritating to eyes.
- R67 : Vapours may cause drowsiness and dizziness.

## &lt;Revised information from the previous version&gt;

Section 2, 3, 9, 11 and 12



**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 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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