

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

Product Name: Ink Tank BCI-6PC Photo Ink for Bubble Jet Printer

**STATEMENT OF HAZARDOUS NATURE:** Not classified as hazardous according to the criteria on Worksafe Australia.

Manufacturer: Canon Inc.  
30-2, Shimomaruko 3-Chome, Ohta-ku Tokyo 146-8501, Japan  
Phone: +81 3 3758-2111

Distributor: Canon Australia Pty Ltd  
1 Thomas Holt Drive  
North Ryde NSW 2113  
Phone: (02) 9805-2000

Date of preparation: 22 December, 2000  
Revised:05 December, 2005

**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredient(s)

Chemical Name	CAS #	Weight %	EU Symbol	EU R-Phrase
Glycerin	56-81-5	< 9	None	None
Ethylene glycol	107-21-1	< 6	Xn	R22
Diethylene glycol	111-46-6	< 4	Xn	R22
Isopropyl alcohol	67-63-0	< 3	Xi	R36, 67

Chemical Name	USA OSHA PEL	ACGIH TLV
Glycerin	(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>
Ethylene glycol	Not established	(aerosol) Ceiling = 100 mg/m <sup>3</sup>
Diethylene glycol	Not established	Not established
Isopropyl alcohol	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>

Chemical Name	EU ILV	DFG MAK
Glycerin	Not established	Not established
Ethylene glycol	TWA = 20 ppm, 52 mg/m <sup>3</sup> STEL = 40 ppm, 104 mg/m <sup>3</sup>	TWA = 10 ppm, 26 mg/m <sup>3</sup>
Diethylene glycol	Not established	TWA = 10 ppm, 44 mg/m <sup>3</sup>
Isopropyl alcohol	Not established	TWA = 200 ppm, 500 mg/m <sup>3</sup>

**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS - Continued**

**Carcinogen**

Chemical Name	CAS #	Reference
None		

**Other Ingredient(s)**

Chemical/Generic Name	Weight %
Water	60-80
Ammonia derivative	< 8

**SECTION 3 HAZARDS IDENTIFICATION**

**Emergency Overview:** Ink tank containing cyan liquid ink with slight odor.  
Combustible liquid and vapor.  
Vapor or mist may cause respiratory tract, skin and eye irritation.

**Potential Health Effects and Symptoms:**

**Inhalation:** No adverse effects are expected under intended use.  
Over exposure to isopropyl alcohol, ethylene glycol and/or diethylene glycol may cause headache, nausea, dizziness, vomiting, drowsiness, cough and sore throat.  
Glycerin mist may cause physical irritation and difficulty breathing.

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

**Eye:** May cause minimal irritation based on the animal test data of similar composition ink. (See SECTION 11)

**Skin:** May cause mild irritation and no sensitization based on the animal test data of similar composition 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 persist, obtain medical advice.

Note to Physicians: None

**SECTION 5 FIRE 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:

Flash Point(°C): Estimate: 55-58 (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(USA) ,  
"Not-flammable" under FHSA(USA) and 88/379/EEC(EU).

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**SECTION 5 FIRE FIGHTING MEASURES - Continued**

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## Fire and Explosive Properties - Continued:

Autoflammability:	None
Explosive Properties:	None
Oxidizing Properties:	None
Hazardous Combustion Products:	CO, CO <sub>2</sub> and NOx.
Other Properties:	None

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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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**

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Handling: Avoid breathing vapor or mist.  
Avoid contact with skin, eyes and clothing. When contact, wash out immediately.  

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Storage: Keep in a cool and dry place. Keep away from heat and flame.  
Keep out of the reach of children.  

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**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure Guidelines: Not established for this ink.  
(See SECTION 2)

Engineering Controls: Use usual ventilation to keep airborne concentrations below the exposure limit.  
(See SECTION 2)

Personal Protection Equipment(s):

Respiratory Protection:  Required  Not Required

Eye/Face Protection:  Required  Not Required

Skin Protection:  Required  Not Required

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Cyan liquid
Odor:	Slight odor
pH:	9.0-10.0
Boiling Point/Range(°C):	Not available
Melting Point/Range(°C):	Not available
Decomposition Temperature(°C):	Not available
Flash Point(°C):	Estimate: 55-58 (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(USA) , "Not-flammable" under FHSA(USA) and 88/379/EEC(EU).
Autoflammability:	None
Explosive Properties:	None
Oxidizing Properties:	None
Vapor Pressure:	Not available
Vapor Density:	Not available
Density / Specific Gravity:	Not available
Water Solubility:	Miscible
Fat Solubility:	Not available
Partition Coefficient (n-Octanol/Water):	Not available
Percent Volatile:	60-80 %
Evaporation Rate:	Not available

**SECTION 10 STABILITY AND REACTIVITY**

Stability:  Stable  Unstable  
 Conditions to Avoid: None

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Materials to Avoid: Acids, bases, oxidizing materials and reducing agents.

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Hazardous Decomposition Products: CO, CO<sub>2</sub>, NO<sub>x</sub> and Ammonia.

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Hazardous Polymerization:  May Occur  Will Not Occur  
 Conditions to Avoid: None

**SECTION 11 TOXICOLOGICAL INFORMATION**

Acute Toxicity:  
 Inhalation: Not available

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Ingestion: Not available

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Eye: Data of similar composition ink :  
 Minimal irritant, Maximum Group Mean Score = 6.0 Class 3 (rabbit)  
 OECD Guidelines No.405 "Acute Eye Irritation/Corrosion"  
 Commission Directive 92/69/EEC Method B5

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Skin: Data of similar composition ink :  
 Mild irritant, Primary Irritation Index = 1.3 (rabbit)  
 OECD Guidelines No.404 "Acute Dermal Irritation/Corrosion"  
 Commission Directive 92/69/EEC Method B4

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Sensitization: Data of similar composition ink :  
 Non sensitizer, Sensitization rate = 0% (0/10) (guinea pig)  
 OECD Guidelines No.406 "Skin sensitisation"  
 Commission Directive 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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**SECTION 11 TOXICOLOGICAL INFORMATION - Continued**

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Carcinogenicity: No component of this ink is listed as human carcinogens or potential carcinogens in IARC Monographs, NTP, OSHA(USA) regulations or Annex I to Directive 67/548/EEC.

Others: None

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**SECTION 12 ECOLOGICAL INFORMATION**

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Mobility: Not available

Persistence /  
Degradability: Not available

Bioaccumulation: Not available

Ecotoxicity: Not available

Other Adverse  
Effects: Not available

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**SECTION 13 DISPOSAL CONSIDERATION**

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Method of Disposal: Disposal may be subject to federal, state and local laws.

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**SECTION 14 TRANSPORT INFORMATION**

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UN #: None

UN Shipping Name: None

UN Classification: None

UN Packing Group: None

Special Precautions: None

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**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

Specific Provisions in Relation to Protection of Man or the Environment:

76/769/EEC: Not regulated

(EC)2037/2000: Not regulated

(EEC)2455/92: Not regulated

Others: None

**USA Information:**

Information on the Label under FHSA:

Signal Word: Not required  
Hazard warning: Not required

Safety Advice: Not required

Hazardous Component(s): (Not obligatory)  
Glycerin (56-81-5) < 9% Ethylene glycol (107-21-1) < 6%  
Diethylene glycol (111-46-6) < 4% Isopropyl alcohol (67-63-0) < 3%

**SARA Title III §313:**

Chemical Name	Weight %
Ethylene glycol (107-21-1)	< 6

**California Proposition 65:**

Chemical Name	Weight %
None	

SECTION 16 OTHER INFORMATION

Other Information:

None

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, 88/379/EEC
- EU Regulation (EC)2037/2000, (EEC)2455/92

Abbreviations:

- "EU" stands for European Union.
- "OSHA PEL" stands for PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration.
- "ACGIH TLV" stands for TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
- "EU ILV" stands for Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.
- "DFG MAK" stands for MAK(Maximale Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft.
- "TWA" stands for Time Weighted Average.
- "IARC" stands for International Agency for Research on Cancer.
- "NTP" stands for National Toxicology Program (USA).
- "OSHA HCS" stands for Occupational Safety and Health Act, Hazard Communication Standard.
- "FHSA" stands for Federal Hazardous Substances Act.

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