



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: BCI-16C

DESCRIPTION: Colour Ink Tank

USED WITH MACHINES: PIXMA iP90, SELPHY DS700

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

DISTRIBUTER: Canon (UK) Ltd
Woodhatch
Reigate
Surrey
RH2 8BF
Phone: 01737 220000

DATE PREPARED: 23/01/2004

DATE REVISED: 10/10/2005

UK MSDS REF: MSDSCCI3269

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

Product Name: Canon Ink Tank BCI-16 Color
Product Code: 9818A
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	4 - 10	None / None	(as mist) Total dust TWA = 15 mg/m ³ Respirable fraction TWA = 5 mg/m ³	(as mist) TWA = 10 mg/m ³	Not established	Not established
Ethylene glycol (Contained in cyan and magenta ink)	107-21-1 / 203-473-3	5 - 10	Xn / R22	Not established	(aerosol) Ceiling = 100 mg/m ³	TWA = 20 ppm, 52 mg/m ³ STEL = 40 ppm, 104 mg/m ³	10 ppm, 26 mg/m ³
Diethylene glycol (Contained only in yellow ink)	111-46-6 / 203-872-2	5 - 10	Xn / R22	Not established	Not established	Not established	10 ppm, 44 mg/m ³
Substituted phthalocyanine (Contained only in cyan ink)	Confidential	2 - 6	Xi / R41 R52/53	Not established	Not established	Not established	Copper and its compounds Inhalable fraction 1.0 mg/m ³
Substituted anthraquinone derivative (Contained only in magenta ink)	Confidential	2 - 6	None / R52/53	Not established	Not established	Not established	Not established
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.-[1,4-dimethyl-1,4- bis(2-methylpropyl)-2-butynyl- 1,4-diyl]bis[.omega.-hydroxy-	9014-85-1 / Not applicable	< 2	Xi / R41	Not established	Not established	Not established	Not established
Ammonia derivative (Contained in cyan and magenta ink)	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
Lactam	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

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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 three-color ink tank. (Cyan, Magenta and 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.

Eye:

Cyan and Magenta: May cause slight irritation.
Yellow: Practically non-irritation is expected.
(See SECTION 11)

Skin:

Cyan: May cause no irritation and mild sensitization.
Magenta and Yellow: 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.

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 FIGHTING MEASURES

Fire Fighting Measures:

Extinguishing Media:

CO₂, 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, CO₂, NO_x and SO_x

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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Cyan, magenta and yellow liquid
Odor:	Slight odor
pH:	7.0 - 9.0
Boiling Point/Range(°C):	Not available
Melting Point/Range(°C):	Not available
Decomposition Temperature(°C):	Not available
Flash Point(°C):	None (Tag. Closed Cup.)
Flammable (Explosive) Limits:	Not available
Autoignition Temperature(°C):	Not available
Flammability:	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 (%):	55 - 75
Evaporation Rate:	Not available
Viscosity (mPa s):	2.2 - 2.6

SECTION 10 STABILITY AND REACTIVITY

Stability:	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
Conditions to Avoid:	None
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents
Hazardous Decomposition Products:	CO, CO ₂ , NO _x , SO _x and Ammonia
Hazardous Polymerization:	<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur
Conditions to Avoid:	None

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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:

Not available

Ingestion:

All colors: LD₅₀ > 2000 mg/kg, 0/6 mortalities at 2000 mg/kg (rat)

OECD Guidelines No.423 (2001)

96/54/EC Method B1 tris

Eye:

Cyan: Slightly irritating, Maximum Average Score = 4.00 (rabbit)

Magenta: Slightly irritating, Maximum Average Score = 2.67 (rabbit)

Yellow: Practically non-irritating, Maximum Average Score = 2.00 (rabbit)

OECD Guidelines No.405 (2002)

92/69/EEC Method B5

Skin:

Cyan and Yellow: Not irritant, Primary Irritation Index = 0.0 (rabbit)

Magenta: Considered to be "not irritating" based on the classification criteria under 2001/59/EC (rabbit)

OECD Guidelines No.404 (2002)

92/69/EEC Method B4

Sensitization:

Cyan: Mild sensitizer, Sensitization rate = 11 % (1/9) (guinea pig)

Magenta and Yellow: Non-sensitizer, Sensitization rate = 0 % (0/10) (guinea pig)

OECD Guidelines No.406 (1992)

96/54/EC Method B6

Mutagenicity:

Ames test:

All colors: Negative (test strains: *S. typhimurium* & *E. Coli*)

Reproductive Toxicity:

Not available

Carcinogenicity:

Not available

Others:

Not available

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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

< EU Information >

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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< 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 %
"Ethylene glycol" (107-21-1) (Contained in cyan and magenta ink)	5 - 10
"Copper Compounds" (Contained only in cyan ink) (as Cu)	2 - 6 (< 0.35)

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.

Others: This product contains a chemical substance which is being introduced under a Low Volume Chemical Permit granted under section 21U(2) of the Industrial Chemicals (Notification and Assessment) Act 1989.

SECTION 16 OTHER INFORMATION

<R phrase list>
 R22: Harmful if swallowed.
 R41: Risk of serious damage to eyes.
 R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

<Revised information from the previous version>
 Section 15

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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, (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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