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 * M S D S *
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 * Canadian Centre for Occupational Health and Safety *
 * * * * * (August, 2002) *

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 1438282
 PRODUCT NAME(S) : CANON COLOR INK CARTRIDGE BCI-21 FOR BUBBLE JET
 PRINTER
 PRODUCT IDENTIFICATION : Product Code: F47-0741-400 / F47-0831-500
 MSDS #: IC0068-0306
 DATE OF MSDS : 1996-02-16
 CURRENCY NOTE : MSDS Confirmed Current: 2000-07-25

*** MANUFACTURER INFORMATION ***

MANUFACTURER : Canon Inc
 ADDRESS : 30-2 Shimomaruko 3-Chome
 Ohta-ku Tokyo
 Japan
 Telephone: 03-758-2111

MESSAGE FROM CANON: This information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process. It is based on the level of our knowledge as of the date of preparation.

*** SUPPLIER/DISTRIBUTOR INFORMATION ***

SUPPLIER/DISTRIBUTOR : CANON CANADA INC
 ADDRESS : 6390 Dixie Road
 Mississauga Ontario
 Canada L5T 1P7
 Telephone: 905-795-1111
 EMERGENCY TELEPHONE NO. : 800-424-9300 (CHEMTREC, 24 hour Emergency Contact)

*** MATERIAL SAFETY DATA ***

MATERIAL SAFETY DATA SHEET

F47-0741-400/
IC0068-0306

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

Product Name: CANON COLOR INK CARTRIDGE BCI-21 FOR BUBBLE JET PRINTER
 Product Code: F47-0741-400 / F47-0831-500
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SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)

Chemical Name	CAS #	Weight %	EU Symbol	EU R-Phrase
Glycerin	56-81-5	5-10	None	None
Isopropyl alcohol	67-63-0	<5	No concern with health	No concern with health

Chemical Name	USA OSHA PEL	ACGIH TLV
Glycerin	(as mist) Total dust: TWA=15 mg/m3 Respirable fraction: TWA= 5 mg/m3	(as mist) Total dust: TWA=10 mg/m3
Isopropyl alcohol	TWA=400 ppm 980 mg/m3	TWA = 400 ppm 983 mg/m3 STEL = 500 ppm 1230 mg/m3

Chemical Name	EU ILV	DFG MAK
Glycerin	None	None
Isopropyl alcohol	None	MAK = 400 ppm 980 mg/m3

Carcinogen	Chemical Name	CAS #	Reference
None			

Other Ingredient(s)	Chemical/Generic Name	Weight %
	Water	60-90
	Water-soluble organic compound	5-10
	Water-soluble organic solvent	5-10

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: A set of three colors ink cartridge, (Cyan, magenta, yellow)
All the ink is liquid mixture with slight odor.

Potential Health Effects and Symptoms:

- Inhalation: No effects expected under intended use.
May be harmful if inhaled in large amount.
- Ingestion: May be harmful if swallowed.
- Eye: May cause slight irritation.
- Skin: May cause slight irritation.

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 person breathes in large amounts, remove to fresh air.
Get medical attention.
- Ingestion: Give one or two glasses of water.
Get medical attention.
- Eye: Immediately flush with water for 15 minutes.
If irritation persists, get medical attention.
- Skin: Wash with water and detergent.

If irritation persists, get medical attention.

Note to Physicians: None

SECTION 5 FIRE FIGHTING MEASURES

Fire Fighting Measures:

Extinguishing Media: CO2, Water or dry chemicals.

Unsuitable Extinguishing Media: None

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

Fire and Explosive Properties:

Flash Point (deg C): 56.0 deg C (closed cup)

Flammable(Explosive) Limits: No data available

Autoignition Temperature (deg C): 470 deg C (ASTM-E659)

Flammability: Classified as "combustible liquid" under OSHA-HCS(USA) and "non-flammable" under 88/379/EEC(EU)

Autoflammability: None

Explosive Properties: None

Oxidizing Properties: None

Hazardous Combustion Products: CO, CO2, NOx and Ammonia

Other Properties: None

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Method for Cleaning Up: Wipe off with wet cloth or paper.

SECTION 7 HANDLING AND STORAGE

Handling: When contact with hands, eye and clothing, wash out immediately.

Storage: Keep out of reach of the children.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: Not established.
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 [X] Not Required

Eye/Face Protection: Required Not Required

Skin Protection: Required Not Required

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Three colors liquid, (cyan, magenta and yellow)

Odor: Slight odor

pH: 8-10

Boiling Point/Range (deg C): No data available

Melting Point/Range (deg C): No data available

Decomposition Temperature (deg C): No data available

Flash Point (deg C): 56.0 deg C (closed cup)

Flammable (Explosive) Limits: No data available

Autoignition Temperature (deg C): 470 deg C (ASTM-E659)

Flammability: Classified as "combustible liquid" under OSHA-HCS(USA) and "non-flammable" under 88/379/EEC(EU)

Autoflammability: None

Explosive Properties: None

Oxidizing Properties: None

Vapor Pressure: No data available

Vapor Density: No data available

Density / Specific Gravity: 1.07-1.08

Water Solubility: Miscible

Fat Solubility: No data available

Partition Coefficient (n-Octanol/Water): No data available

Percent Volatile: No data available

Evaporation Rate: No data available

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable Unstable

Conditions to Avoid: None

Materials to Avoid: None

Hazardous Decomposition Products: CO, CO2, NOx and Ammonia

Hazardous Polymerization: May Occur Will Not Occur

Conditions to Avoid: None

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation: No data available

Ingestion: No data available

Eye: No data available

Skin: No data available

Sensitization: No data available

Mutagenicity: Negative (test strains: S. typhimurium)

Reproductive Toxicity: No data available

Carcinogenicity: No human carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA(USA) regulation and EU Directive (Annex I to Directive 67/548/EEC).

Others: None

SECTION 12 ECOLOGICAL INFORMATION

Mobility: No data available
 Persistence / No data available
 Degradability:
 Bioaccumulation: No data available
 Ecotoxicity: No data available
 Other Adverse No data available
 Effects:

SECTION 13 DISPOSAL CONSIDERATION

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

SECTION 14 TRANSPORT INFORMATION

UN #: Not identified
 UN Shipping Name: Not identified
 UN Classification: Not identified
 UN Packing Group: Not identified
 Special Precautions: None

SECTION 15 REGULATORY INFORMATION

EU Information:

Information on the Label:

Symbol & Not required
 Indication:
 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)3093/94: Not regulated
 (EEC)2455/92: Not regulated

Others: None

USA Information:

Information on the Label:

Signal Word: Not required
 Hazard warning: Not required
 Safety Advice: Not required

Hazardous Component(s):
 None

SARA Title III Section 313

Chemical Name	Weight %
Copper compound (as Copper metal) (Contained only in cyan ink)	<5 <0.15

California Proposition 65:

Chemical Name

Weight %

None

SECTION 16 OTHER INFORMATION

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 and their amendments.
- EU Regulation (EC)3093/94, (EEC)2455/92 and their amendments.

Other Information:

None

Abbreviations:

- "EU" stands for European Union.
 - "OSHA" stands for PEL (Permissible Exposure Limit) under Occupational Safety and Health Administration.
 - "ACGIH" stands for TLV (Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
 - "ILV" stands for Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC.
 - "DFG" 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).
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Date of Issue: February 16, 1996

Revised Date:

NOTE: The specifications given
in this Safety Data Sheet are
products supplied by CANON
CANADA INC. only.