



## MATERIAL SAFETY DATA SHEET

F47-0741-400/  
IC0068-0306

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

Product Name: COLOUR INK CARTRIDGE BCI-21

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, Japan  
Phone: 03-3758-2111Distributor: Canon Australia Pty Ltd  
1 Thomas Holt Drive  
North Ryde NSW 2113  
Phone: (02) 9805-2000

Date of preparation: 16 February 1996

Revised: 01 July 2002

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

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




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 SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS – Continued
 

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## 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

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 SECTION 3 HAZARDS IDENTIFICATION
 

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

## Potential Health Effects and Symptoms:

Inhalation: No effects are 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.  
Call a physician.

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 CO<sub>2</sub>, Water or dry chemicals.

Media:

Unsuitable None.  
Extinguishing Media:

Special Fire None.  
Fighting Procedures:

Unusual Fire and None.  
Explosion Hazards:

## Fire and Explosive Properties:

Flash Point (°C): 56 °C (closed cup)

Flammable No data available.  
(Explosive) Limits:

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

Flammability: Classified as “combustible liquid” under OSHA-HCS (USA) and  
“non-flammable” under 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.

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Explosive Properties: None.

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Oxidising Properties: None.

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

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Other Properties: None.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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Personal Precautions: None

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Environmental Precautions: None

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

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Storage: Keep out of the reach of children.

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## 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  Not Required

Eye / Face Protection:  Required  Not Required

Skin Protection:  Required  Not Required

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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

Odour: Slight odour

pH: 8 - 10

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

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

Decomposition Temperature (°C): No data available

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

Flammable (Explosive) Limits: No data available

Autoignition Temperature (°C): 470 °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

Vapour Pressure: No data available

Vapour 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

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Materials to Avoid: None

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

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Hazardous Polymerisation  May Occur  Will Not Occur

Conditions to Avoid: None

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## SECTION 11 TOXICOLOGICAL INFORMATION

## Acute Toxicity:

Inhalation: No data available

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Ingestion: No data available

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Eye: No data available

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Skin: No data available

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Sensitisation: No data available

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Mutagenicity: Negative (test strains: *S. typhimurium*)

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Reproductive Toxicity: No data available

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## SECTION 11 TOXICOLOGICAL INFORMATION - Continued

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 /  
Degradability: No data available

Bioaccumulation: No data available

Ecotoxicity: No data available

Other Adverse  
Effects: No data available

## 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 &  
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)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 §313:

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

## California Proposition 65:

Chemical Name	Weight
None	

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**SECTION 16 OTHER INFORMATION**

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**Other Information:**

None

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**Literature Reference:**

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environment 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 Organisation 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

**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 Government Industrial Hygienists.

‘EU ILV’ stands for Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC.

‘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).

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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.