



## MATERIAL SAFETY DATA SHEET

F47-0731-400/  
F47-0821-500

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

Product Name: CANON BLACK INK CARTRIDGE BCI-21

Description: Liquid mixture, black ink for BJC-4000 series

**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: 15 July 1994

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
Ethylene glycol	107-21-1	<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/m <sup>3</sup> Respirable fraction TWA=5mg/m <sup>3</sup>	( as mist ) Total dust TWA=10 mg/m <sup>3</sup>
Ethylene glycol	None	(Vapour and mist) TWA= 50ppm (ceiling)
Isopropyl alcohol	TWA=400 ppm	TWA=400 ppm

Chemical Name	EU ILV	DFG MAK
Glycerin	None	None
Ethylene glycol	None	MAK=10ppm
Isopropyl alcohol	None	MAK=400 ppm

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F47-0821-500

## SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS – Continued

## Carcinogen

Chemical Name	CAS #	Reference
None		

## Other Ingredient(s)

Chemical / Generic Name		Weight %
Water	(7732-18-5)	70 – 90
Water-soluble organic compound		5 – 10

## SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: Ink cartridge containing black liquid ink with slight odour.

## Potential Health Effects and Symptoms:

Inhalation: May be harmful if inhaled in large amount.

Ingestion: May be harmful if swallowed.

Eye: May be no irritant based on the animal test data of similar ink.

Skin: May cause slight irritation.

Chronic Effects: Not identified

Medical Conditions Generally known to be Aggravated by Exposure:  
Not identified



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### 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 to induce vomiting.  
Call a physician.

Eye: Flush with plenty of water.

Skin: Wash with water and soap.

Note to Physicians: None.

### SECTION 5 FIRE FIGHTING MEASURES

#### Fire Fighting Measures:

Extinguishing Media: CO<sub>2</sub>, 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 (°C): No data available

Flammable (Explosive) Limits: No data available.

Autoignition Temperature (°C): No data available

Flammability: No data available



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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: No data available

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Other Properties: None.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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Personal Precautions: No data available

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Environmental  
Precautions: No data available

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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: Do not take internally.

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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: Black liquid

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): No data available

Flammable (Explosive) Limits: No data available

Autoignition Temperature (°C): No data available

Flammability: No data available

Autoflammability: None

Explosive Properties: None

Oxidizing Properties: None

Vapour Pressure: No data available

Vapour Density: No data available

Density / Specific Gravity: 1.04

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



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## SECTION 10 STABILITY AND REACTIVITY

Stability:  Stable  Unstable

Conditions to Avoid: None

Materials to Avoid: None

Hazardous Decomposition  
Products: AmmoniaHazardous Polymerisation  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

Sensitisation: No data available

Mutagenicity: Negative (test strains: *S. typhimurium*)Reproductive  
Toxicity: No data available



## 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# None

UN Shipping Name: None

UN Classification: None

UN Packing Group: None

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 %
Ethylene glycol (107-21-1)	<10%

## 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. And, it is based on the level of our knowledge as of the date of preparation.