Canon

MATERIAL SAFETY DATA SHEET

F45-0891
IC0059-0102

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

Product Name: BJ CARTRIDGE BC-05

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: 03-3758-2111

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

Date of preparation: 19 January 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 (contained only in magenta ink)	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=5mg/m3	(as mist) Total dust TWA=10 mg/m3
Isopropyl alcohol (contained only in magenta ink)	TWA=400 ppm, 980mg/m3	TWA=400 ppm, 983mg/m3

Chemical Name	EU ILV	DFG MAK
Glycerin	None	None
Isopropyl alcohol (contained only in magenta ink)	None	MAK=400 ppm, 980mg/m3

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS – Continued

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 colours ink cartridge, (Cyan, magenta, yellow). All the ink is liquid mixture with slight odour.

Potential Health Effects and Symptoms:

Inhalation: May be harmful if inhaled in large amount.

Ingestion: Maybe 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 at least 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 (°C):	Yellow: No data, Magenta 56.0 ^{o}C (c.c), Cyan: None (c.c)
Flammable (Explosive) Limits:	No data available.
Autoignition Temperature (°C):	Magenta: 470^{o}C (ASTM-E659), Cyan/ yellow: No data available
Flammability:	Not Classified as “Flammable” under OSH-HCS (USA) and under 88/379/EEC (EU)

SECTION 5 FIRE FIGHTING MEASURES - Continued

Fire and Explosive Properties – Continued:

Autoflammability:	None.
Explosive Properties:	None.
Oxidising Properties:	None.
Hazardous Combustion Products:	CO, CO_2, NO_x 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, eyes and clothing, wash out immediately. Do not take internally.
Storage:	Keep out of the reach of 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	☒ 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)
Odor:	Slight odor
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):	Yellow: No data, Magenta 56.0 °C, Cyan : None (c.c)
Flammable (Explosive) Limits:	No data available
Autoignition Temperature (°C):	Magenta : 470 °C (ASTM-E659), Cyan/ yellow: No data
Flammability:	Not classified as “Flammable” under OSHA-HCS (USA) and under 88/379/EEC (EU)
Autoflammabailty:	None
Explosive Properties:	None
Oxidizing Properties:	None
Vapor Pressure:	No data available
Vapor Density:	No data available
Density / Specific Gravity:	1.06- 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

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 %
(contained only in Cyan ink)	
Copper compound	<5
Copper metal	<0.35

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. 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).

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.