



MATERIAL SAFETY DATA SHEET

F45-1311
IC0170-0103

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

Product Name: COLOUR BJ CARTRIDGE BC-22e PHOTO

STATEMENT OF HAZARDOUS NATURE: Not classified as hazardous according to the criteria on Worksafe Australia.Manufacturer: Canon Inc.
30-2, Shimornaruko 3-Chome, Ohta-ku Tokyo, Japan
Phone: 03-3758-2111Distributor: Canon Australia Pty Ltd
1 Thomas Holt Drive
North Ryde NSW 21 13
Phone: (02) 9805-2000Date of preparation: 9 September 1997
Revised: August 27, 2003

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 (contained only in black ink)	107-21-1	<10	Xn	R22
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 ³ Respirable fraction TWA=5mg/m ³	(as mist) Total dust TWA=10 mg/m ³
Ethylene glycol (contained only in black ink)	None	(aerosol) Ceiling= 39.4 ppm, 100mg/m ³
Isopropyl alcohol	TWA=400 ppm, 980mg/m ³	TWA=400 ppm, 983mg/m ³ STEL=500 ppm, 1230mg/m ³

Chemical Name	EU ILV	DFG MAK
Glycerin	None	None
Ethylene glycol (contained only in black ink)	None	MAK= IOppm, 26mg/m ³
Isopropyl alcohol	None	MAK=400 ppm, 980mg/m ³

Date of Issue: September 11, 1997

Revised: August 27, 2003

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS - Continued**Carcinogen**

Chemical Name	CAS #	Reference
None		

Other Ingredient(s)

Chemical / Generic Name	Weight
Water	70 - 90 (Black ink) 60 - 90 (Colour ink)
Water-soluble organic compound	5-10
Water-soluble organic solvent	5 - 10

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: A set of four colours ink cartridge, (Black, 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: Black: May be no irritant based on the animal test data of similar composition ink.
Colour: May cause slight irritation based on the animal test data.

Skin: Black : May cause slight irritation based on the animal test data of similar composition ink.
Colour: May be non-irritating based on the animal test data.

Chronic Effects: Not identified

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

MATERIAL SAFETY DATA SHEET F45-1131
ICO170-0103

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 Media: CO₂, Water or dry chemicals.

Media:

Unsuitable Extinguishing Media: None.

Special Fire Fighting Procedures: None.

Unusual Fire and Explosion Hazards: None.

Fire and Explosive Properties:

Flash Point (°C): Black: 47.8°C (estimated), Colour : 56°C (c.c. combustion not continued)

Flammable (Explosive) Limits: No data available.

Autoignition Temperature (°C): Black: 539 °C (estimated according to the similar ink)
Colour: 470°C (ASTM-E659)

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



MATERIAL SAFETY DATA SHEET

F45-1311
IC0170-0103

SECTION 5 FIRE FIGHTING MEASURES -Continued

Fire and Explosive Properties - Continued:

Autoflammability: None.

Explosive Properties: None.

Oxidising Properties: None.

Hazardous Combustion Products: CO, CO₂ and NO,,.

Other Properties: None.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin and eyes.

Environmental Precautions: It is recommended to keep away from drains, surface- and ground-water.

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

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and clothing, when contact, wash out immediately.

Storage: Keep out of the reach of children.

CCIRE le**MATERIAL SAFETY DATA SHEET**F45-1311
IC0170-0103**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:	O Required	Not Required
-------------------------	------------	--------------

Eye / Face Protection:	O Required	Not Required
------------------------	------------	--------------

Skin Protection:	O Required	Not Required
------------------	------------	--------------

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black, cyan, magenta and yellow liquid
-------------	--

Odour:	Slight odour
--------	--------------

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

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

Decomposition Temperature (°C):	No data available
---------------------------------	-------------------

Flash Point (°C):	Black: 47.8°C (estimated), Colour: 56°C (c.c combustion not continued)
-------------------	--

Flammable (Explosive) Limits:	No data available
-------------------------------	-------------------

Autoignition Temperature (°C):	Black: 539 °C (estimated according to the similar ink)
--------------------------------	--

Flammability:	Classified as "combustible liquid" under OSHA-IICS(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:	Black : 1.04, Colour: 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	0 Unstable
Conditions to Avoid:	None	
Materials to Avoid:	None	
Hazardous Decomposition Products:	CO, CO ₂ , NO _x and Ammonia	
Hazardous Polymerisation	El May Occur	Will Not Occur
Conditions to Avoid:	None	

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation: No data available

Ingestion: No data available

Eye:

(Yellow ink) Rabbit: Minimally irritating (M I): the calculated maximum Draize score: 4 (EPA (FIFRA) Pesticide Assessment Guideline par. 81-4 "Primary Eye Irritation Study")

(Black) Data of similar composition ink:

Rabbit: Non-irritating: a maximum group mean score = 0.0 (FSHA: US 16CFR 1500.42, According to a modified Key and Calandra system)

Skin:

(Yellow ink) Rabbit: Non-irritating: a primary irritation index of 0.0 (EPA (FIFRA) Pesticide Assessment Guideline par.81-5 "Primary Dermal Irritation Study")

(Black) Data of similar composition ink:

Rabbit: Mild irritant: a primary irritation index = 1.1 (FSHA: US 16CFR 1500.41, According to the Draize classification scheme)

Sensitisation: No data available

Mutagenicity: Ames test : 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

Callon

MATERIAL SAFETY DATA SHEET

F45-1311
1C0170-0103

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 (contained only in black ink)	<10
Copper compound (contained only in cyan ink)	<5%
As copper metal	<0.2% (maximum)

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).

The Information, data and recommendations set forth herein (the "Information") are presented in good faith and are believed to be correct as of the date hereof. The company / manufacturer makes no representations as to the completeness or accuracy of the Information and disclaims responsibility for any reliance thereon. The Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the information must be determined by the user to be in accordance with applicable Federal, State and Local laws and regulations. In no event will the company / manufacturer be responsible for damages for any nature whatsoever resulting from the use or reliance upon the Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO THE INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.