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

**Product Name:** Canon Color BJ Cartridge BC-11e  
**Product Code:** 0907A / F45-1321  
**Manufacturer:** Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph# 03-3758-2111  
**Supplier:** Canon USA, Inc, One Canon Park, Melville, NY 11747, USA  
**Phone #:** 1-800-OK-CANON 24 Hr. Emergency CHEMTREC # 1-800-424-9300  

## SECTION 2  COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name / Generic name</th>
<th>CAS # / EC #</th>
<th>Weight %</th>
<th>EU Symbol/ R-Phrase</th>
<th>USA OSHA PEL</th>
<th>ACGIH TLV</th>
<th>EU ILV</th>
<th>DFG MAK</th>
</tr>
</thead>
</table>
| Glycerin                    | 56-81-5 / 200-289-5 | 5 - 10 | None / None | (as mist) Total dust TWA = 15 mg/m$^3$  
Respirable fraction TWA = 5 mg/m$^3$ | Not established | Not established | Not established |
| Thiodiglycol (Contained in cyan, magenta and yellow ink) | 111-48-8 / 203-874-3 | 5 - 10 | Xi / R36 | Not established | Not established | Not established |
| Ethylene glycol (Contained only in black ink) | 107-21-1 / 203-473-3 | 2 - 6 | Xn / R22 | Not established | (aerosol) Ceiling = 100 mg/m$^3$  
TWA = 20 ppm, 52 mg/m$^3$  
STEI = 40 ppm, 104 mg/m$^3$ | 10 ppm, 26 mg/m$^3$ |
| Isopropyl alcohol           | 67-63-0 / 200-661-7 | 2 - 6 | F / R11, Xi / R36, R67 | TWA = 400 ppm, 980 mg/m$^3$  
TWA = 200 ppm, 492 mg/m$^3$  
STEI = 400 ppm, 984 mg/m$^3$ | Not established | 200 ppm, 500 mg/m$^3$ |
| Copper compound (Contained only in cyan ink) | Confidential | 2 - 6 | None / None | Not established | Not established | Not established | Copper and its compounds Inhalable fraction 1.0 mg/m$^3$ |
| C.I. Direct Violet 107 (Contained only in magenta ink) | Not registered / 413-180-4 | 1 - 3 | Xi / R41 | Not established | Not established | Not established |
| C.I. Direct Yellow 173 (Contained only in yellow ink) | Not registered / 414-410-6 | 1 - 3 | Xi / R41 | Not established | Not established | Not established |
| Poly(oxy-1,2-ethanediyl), alpha-omega- 
[1,4-dimethyl-1,4-bis(2-methylproplyl 
2-buteno-3,4-diyi)bis 
[omega- hydroxy- 
(Contained in cyan, magenta and yellow ink) | 9014-85-1 / Not applicable | 1 - 3 | Xi / R41 | Not established | Not established | Not established |
| Ammonia derivative | Confidential | 5 - 10 | None / None | Not established | Not established | Not established |
| Water | 7732-18-5 / 231-79-12 | 65 - 85 | None / None | Not established | Not established | Not established |
< Carcinogen >

No component of this ink is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

SECTION 3  HAZARDS IDENTIFICATION

EU Classification:
Not classified as dangerous.

Emergency Overview:
A set of four colors ink cartridges. (Black, Cyan, Magenta and Yellow)
All the ink is liquid mixture with slight odor.

Potential Health Effects and Symptoms:

Inhalation:
No adverse effects are expected under intended use.
Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, headache and nausea.

Ingestion:
May cause abdominal pain, diarrhea, dizziness, drowsiness, dullness, headache, nausea and vomiting.

Eye:
May cause minimal irritation. (See SECTION 11)

Skin:
Neither irritation nor sensitization is expected. (See SECTION 11)

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 symptoms are experienced, move victim to fresh air and obtain medical advice.

Ingestion:
Rinse mouth. Give one or two glasses of water.
If irritation or discomfort occurs, obtain medical advice immediately.

Eye:
Immediately flush with lukewarm, gently flowing water for 5 minutes or until the chemical is removed.
If irritation persists, obtain medical advice immediately.

Skin:
Wash with water and soap or mild detergent.
If irritation persists, obtain medical advice.

Note to Physicians:
None

Date of Issue: September 9, 1997  Revised: July 15, 2003
SECTION 5  FIRE FIGHTING MEASURES

Fire Fighting Measures:
  Extinguishing Media:
    CO₂, water, foam or dry chemicals

Unsuitable Extinguishing Media:
  None

Special Fire Fighting Procedures:
  None

Unusual Fire and Explosion Hazards:
  None

Fire and Explosive Properties (See also Section 9):
  Hazardous Combustion Products:
    CO, CO₂, NOx and SOx

Other Properties:
  None

SECTION 6  ACCIDENTAL RELEASE MEASURES

Personal Precautions:
  Avoid contact with skin, eyes and clothing.

Environmental Precautions:
  Do not release to sewer, surface water or ground water.

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

SECTION 7  HANDLING AND STORAGE

Handling:
  Use with adequate ventilation.
  Avoid contact with skin, eyes and clothing.
  In case of contact, wash out the contaminated area immediately.

Storage:
  Keep in a cool and dry place. Protect from sunlight.
  Keep away from heat and flame.
  Keep out of the reach of children.

Specific Uses:
  Ink for Ink Jet Printer.
  For more information, please refer to the instruction of this product.

SECTION 8  EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:
  Not established for this ink. (See also SECTION 2)

Engineering Controls:
  Use adequate ventilation.

Personal Protection Equipment(s):
  Respiratory Protection: □ Required
    ☒ Not Required
  Eye/Face Protection: □ Required
    ☒ Not Required
  Skin Protection: □ Required
    ☒ Not Required

Date of Issue: September 9, 1997
Revised: July 15, 2003
### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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

**Odor:** Slight odor

**pH:** 8.2 - 10.5

**Boiling Point/Range(°C):** Not available

**Melting Point/Range(°C):** Not available

**Decomposition Temperature(°C):** Not available

**Flash Point(°C):** Black : 49.0, Color : Estimate 55 - 57
(Tag Closed Cup. Combustion is not sustainable.)

**Flammable (Explosive) Limits:** Not available

**Autoignition Temperature(°C):** Black : Estimate 510 - 520
Color : Estimate 470 - 490 (ASTM-E659)

**Flammability:** Classified as "Combustible liquid" under OSHA-HCS.
Not classified as "flammable" or "combustible" under FHSA.
Not classified as "flammable" under 1999/45/EC.

**Explosive Properties:** None

**Oxidizing Properties:** None

**Vapor Pressure:** Not available

**Vapor Density:** Not available

**Density / Specific Gravity:** 1.04 - 1.10

**Water Solubility:** Miscible

**Fat Solubility:** Not available

**Partition Coefficient (n-Octanol/Water):** Not available

**Percent Volatile (%):** 65 - 85

**Evaporation Rate:** Not available

**Viscosity (mPa s):** 1.5 - 2.6

### SECTION 10 STABILITY AND REACTIVITY

**Stability:** ✗ Stable

**Conditions to Avoid:** None

**Materials to Avoid:** Acids, bases, oxidizing materials and reducing agents

**Hazardous Decomposition Products:** CO, CO₂, NOx, Ammonia and SOx

**Hazardous Polymerization:** □ May Occur

**Conditions to Avoid:** None

---

Date of Issue: September 9, 1997
Revised: July 15, 2003
SECTION 11  TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:
Not available

Ingestion:
Not available

Eye:
Black: Minimal irritant, Maximum Group Mean Score = 2.7, Class 3 (rabbit)
Cyan: Minimal irritant, Maximum Group Mean Score = 5.3, Class 3 (rabbit)
Magenta: Minimal irritant, Maximum Group Mean Score = 3.3, Class 3 (rabbit)
Yellow: Minimal irritant, Maximum Group Mean Score = 4.0 (rabbit)
EPA(FIFRA) Pesticide Assessment Guideline par.81-4
EPA(TSCA) Federal Regulation Subpart E Sec.798.4500

Skin:
Black, Cyan and Magenta: Non irritant, Primary Irritation Index = 0.0 (rabbit)
Yellow: Non irritant, Primary Irritation Index = 0.0 (rabbit)
EPA(FIFRA) Pesticide Assessment Guideline par.81-5
EPA(TSCA) Federal Regulation Subpart E Sec.798.4470

Sensitization:
Black and Magenta: Non sensitizer, Sensitization rate = 0 % (0/10) (guinea pig)
96/54/EC Method B6
Cyan and Yellow: Non sensitizer, Sensitization rate = 0 % (0/10) (guinea pig)
92/69/EEC Method B6

Mutagenicity:
Ames test:
All colors: Negative (test strains: S.typhimurium)

Reproductive Toxicity:
Not available

Carcinogenicity:
Not available

Others:
Not available
SECTION 12 ECOLOGICAL INFORMATION

Mobility: Not available

Persistence / Degradability: Not available

Bioaccumulation: Not available

Ecotoxicity: Not available

Other Adverse Effects: Not available

SECTION 13 DISPOSAL CONSIDERATION

Method of Disposal:
Disposal should 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

Marine Pollutant: Yes

Chemical name (wt%): None

Special Precautions: None

SECTION 15 REGULATORY INFORMATION

Information on the Label:
Symbol & Indication: Not required

R-Phrase: Not required

S-Phrase: Not required

Dangerous Component(s):
None

Special Precautions under 1999/45/EC Annex V:
Not required

Specific Provisions in Relation to Protection of Man or the Environment:
76/769/EEC: Not regulated

(EC)2037/2000: Not regulated

(EC)304/2003: Not regulated

Others: None

Date of Issue: September 9, 1997
Revised: July 15, 2003
Information on the Label under FHSA:

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) (Contained only in black ink) | 2 - 6
"Copper Compounds" (Contained only in cyan ink) (as Cu) | 2 - 6 (< 0.35)

California Proposition 65:

Chemical Name | Weight %
---|---
None

< Canada Information >

WHMIS Controlled Product: Not applicable (Manufactured article)

< Australia Information >

Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC.

SECTION 16 OTHER INFORMATION

*C I Direct Violet 107*

A mixture of: sodium 5-[8-[4-[4-[4-[7-(3,5-dicarboxylatophenylazo)-8-hydroxy-3,6-disulfonanapththalen-1-ylamino]-6-hydroxy-1,3,5-triazin-2-yl]-2,5-dimethylpiperazin-1-yl]-6-hydroxy-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfonanapththalen-2-ylazo] -isophthalate; ammonium 5-[8-[4-[4-[4-[7-(3,5-dicarboxylatophenylazo)-8-hydroxy-3,6-disulfonanapththalen-1-ylamino]-6-hydroxy-1,3,5-triazin-2-yl]-2,5-dimethylpiperazin-1-yl]-6-hydroxy-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfonanapththalen-2-ylazo] -isophthalate; 5-[8-[4-[4-[4-[7-(3,5-dicarboxylatophenylazo)-8-hydroxy-3,6-disulfonanapththalen-1-ylamino]-6-hydroxy-1,3,5-triazin -2-yl]-2,5-dimethylpiperazin-1-yl]-6-hydroxy-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfonanapththalen-2-ylazo] -isophthalic acid"

*R phrase list*
R41: Risk of serious damage to eyes. R67: Vapours may cause drowsiness and dizziness.

Entirely revised.
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 of 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.