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

**Product Name:** Canon Color BJ Cartridge BC-06 Photo  
**Product Code:** 0886A / F45-1131  
**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>
<tbody>
<tr>
<td>Glycerin</td>
<td>56-81-5 / 200-289-5</td>
<td>5 - 10</td>
<td>None / None (as mist)</td>
<td>TWA = 15 mg/m³ Total dust</td>
<td>TWA = 10 mg/m³ Respirable fraction</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Thiodiglycol</td>
<td>111-48-8 / 203-874-3</td>
<td>5 - 10</td>
<td>Xi / R36</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Isopropyl alcohol (Contained only in magenta ink)</td>
<td>67-63-0 / 200-661-7</td>
<td>1 - 3</td>
<td>F / R11, Xi / R36 R67</td>
<td>TWA = 400 ppm, 980 mg/m³</td>
<td>TWA = 200 ppm, 492 mg/m³ STEL = 400 ppm, 984 mg/m³</td>
<td>Not established</td>
<td>200 ppm, 500 mg/m³</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), alpha „alpha“-[1,4-dimethyl-1,4-bis(2-methylpropyl) 2-butyne-1,4-diyl]bis [omega-hydroxy]-</td>
<td>9014-85-1 / Not applicable</td>
<td>1 - 3</td>
<td>Xi / R41</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>C.I. Direct Yellow 173 (Contained only in yellow ink)</td>
<td>Not registered / 414-410-6</td>
<td>1 - 3</td>
<td>Xi / R41</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Ammonia derivative</td>
<td>Confidential</td>
<td>5 - 10</td>
<td>None / None</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5 / 231-79-12</td>
<td>65 - 85</td>
<td>None / None</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

Date of Issue: September 19, 1996  
Revised: October 7, 2003
MATERIAL SAFETY DATA SHEET

< 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 three colors ink cartridges. (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:
All colors : May cause minimal irritation. (See SECTION 11)

Skin:
Cyan and Yellow : May cause mild irritation and no sensitization.
Magenta : 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 immediately.

Note to Physicians:
None

Date of Issue: September 19, 1996
Revised: October 7, 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:
  - 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  [x] Not Required
- Eye/Face Protection: [ ] Required  [x] Not Required
- Skin Protection: [ ] Required  [x] Not Required

Date of Issue:  September 19, 1996
Revised:  October 7, 2003
### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Cyan, magenta and yellow liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight odor</td>
</tr>
<tr>
<td>pH</td>
<td>7.0 - 10.7</td>
</tr>
<tr>
<td>Boiling Point/Range(°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point/Range(°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature(°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point(°C)</td>
<td>Magenta: Estimate : 55 - 57 (Tag. Closed Cup. Combustion is not sustainable.)</td>
</tr>
<tr>
<td></td>
<td>Cyan and Yellow : Estimate : None</td>
</tr>
<tr>
<td>Flammable (Explosive) Limits</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition Temperature(°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability</td>
<td>Magenta: Classified as &quot;combustible liquid&quot; under OSHA-HCS. Not classified as &quot;flammable&quot; or &quot;combustible&quot; under FHSA. Not classified as &quot;flammable&quot; under 1999/45/EC. Cyan and Yellow: Neither flammable nor combustible.</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>None</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Density / Specific Gravity</td>
<td>1.04 - 1.10</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Miscible</td>
</tr>
<tr>
<td>Fat Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition Coefficient (n-Octanol/Water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Percent Volatile (%)</td>
<td>65 - 85</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity (mPa s)</td>
<td>1.4 - 2.3</td>
</tr>
</tbody>
</table>

### SECTION 10 STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Stability</th>
<th>Stable</th>
<th>Unstable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditions to Avoid</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Materials to Avoid</td>
<td>Acids, bases, oxidizing materials and reducing agents</td>
<td></td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>CO, CO₂, NOx, Ammonia and SOx</td>
<td></td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>May Occur</td>
<td>Will Not Occur</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 11    TOXICOLOGICAL INFORMATION

Acute Toxicity:
Inhalation:
   Not available

Ingestion:
   Yellow : Estimated LD₅₀ > 5000 mg/kg, 0/3 mortalities at 2000 mg/kg (rat)
   OECD Guidelines No.423 (1996)
   96/54/EC Method B1 tris
   Cyan and Magenta : Not available

OECD Guidelines No.404 (1992)
92/69/EEC Method B4

Eye:
   Cyan and Magenta : [Data of similar composition ink] Minimal irritant (rabbit)
   Yellow : Minimal irritant, Maximum Group Mean Score = 4.7, Class 3 (rabbit)
   OECD Guidelines No.405 (1987)
   92/69/EEC Method B5

Skin:
   Cyan : [Data of similar composition ink] Mild irritant (rabbit)
   Magenta : [Data of similar composition ink] Non irritant (rabbit)
   Yellow : Mild irritant, Primary Irritation Index = 0.5 (rabbit)
   OECD Guidelines No.404 (1992)
   92/69/EEC Method B4

Sensitization:
   Magenta : [Data of similar composition ink] Non sensitizer (guinea pig)
   92/69/EEC Method B6
   Cyan : [Data of similar composition ink] Non sensitizer (guinea pig)
   Yellow : Non sensitizer, Sensitization rate = 0 % (0/10) (guinea pig)
   96/54/EC Method B6

Mutagenicity:
   Ames test :
      Cyan and Magenta : Negative (test strains: S.typhimurium)
      Yellow : Negative (test strains: S.typhimurium & E.Coli)

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%):
☐ No
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
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
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:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

California Proposition 65:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

- **Not required**
- **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

- **<R phrase list>**
  - R11: Highly flammable.
  - R36: Irritating to eyes.
  - R41: Risk of serious damage to eyes.
  - R67: Vapours may cause drowsiness and dizziness.

- **<Revised information from the previous version>**
  - Entirely revised.
Literature Reference:
- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental 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
- DFG, List of MAK and BAT Values
- Canada Workplace Hazardous Materials Information System

Abbreviations:
EU: European Union.
OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA).
ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
DFG MAK: MAK(Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft.
TWA: Time Weighted Average.
STEL: Short Term Exposure Limit.
IARC: International Agency for Research on Cancer.
NTP: National Toxicology Program (USA).
OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA).
FHSA: Federal Hazardous Substances Act (USA).

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