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

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Canon BJ Cartridge BC-60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code:</td>
<td>0917A / F45-1231</td>
</tr>
<tr>
<td>Manufacturer:</td>
<td>Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph#03-3758-2111</td>
</tr>
<tr>
<td>Supplier:</td>
<td>Canon USA Inc., One Canon Park, Melville, NY 11747, USA</td>
</tr>
<tr>
<td>Phone #:</td>
<td>1-800-OK-CANON 24Hr. Emergency CHEMTREC# 1-800-424-9300</td>
</tr>
</tbody>
</table>

## 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</td>
<td>(as mist) TWA = 15 mg/m³</td>
<td>(as mist) TWA = 10 mg/m³</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Thiodiglycol</td>
<td>111-48-8 / 203-874-3</td>
<td>2 - 6</td>
<td>Xi / R36</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>(Contained only in black ink)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6 / 203-872-2</td>
<td>2 - 6</td>
<td>Xn / R22</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>10 ppm, 44 mg/m³</td>
</tr>
<tr>
<td>(Contained only in slightly yellow ink)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0 / 200-661-7</td>
<td>2 - 6</td>
<td>F / R11</td>
<td>TWA = 400 ppm, 980 mg/m³</td>
<td>TWA = 400 ppm, 983 mg/m³</td>
<td>Not established</td>
<td>200 ppm, 500 mg/m³</td>
</tr>
<tr>
<td>(Contained only in black ink)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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>(Contained only in black ink)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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: July 10, 1997
Revised: February 14, 2003
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 two colors ink cartridges. (Black and Slightly 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:
May cause mild irritation and sensitization. (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
SECTION 5  FIRE FIGHTING MEASURES

Fire Fighting Measures:
- Extinguishing Media:
  - CO\textsubscript{2}, 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, CO\textsubscript{2}, NO\textsubscript{x} and SO\textsubscript{x}
- 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
**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Black and slightly yellow liquid</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Slight odor</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Boiling Point/Range(°C)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Melting Point/Range(°C)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Decomposition Temperature(°C)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Flash Point(°C)</strong></td>
<td>Black : Estimate 45 - 50 (Tag Closed Cup. Combustion is not sustainable.) Slightly yellow : None (Tag Closed Cup)</td>
</tr>
<tr>
<td><strong>Flammable (Explosive) Limits</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Autoignition Temperature(°C)</strong></td>
<td>Black : Not available</td>
</tr>
<tr>
<td></td>
<td>Slightly yellow : 456 (ASTM)</td>
</tr>
<tr>
<td><strong>Flammability</strong></td>
<td>Black : 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. Slightly yellow : Neither flammable nor combustible.</td>
</tr>
<tr>
<td><strong>Explosive Properties</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Oxidizing Properties</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Vapor Density</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Density / Specific Gravity</strong></td>
<td>1.04 - 1.10</td>
</tr>
<tr>
<td><strong>Water Solubility</strong></td>
<td>Miscible</td>
</tr>
<tr>
<td><strong>Fat Solubility</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Partition Coefficient (n-Octanol/Water)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Percent Volatile (%)</strong></td>
<td>65 - 85</td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Viscosity (mPa s)</strong></td>
<td>1.7 - 2.6</td>
</tr>
</tbody>
</table>

**SECTION 10 STABILITY AND REACTIVITY**

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

Acute Toxicity:

Inhalation:
Not available

Ingestion:
Not available

Eye:
Black: Minimal irritant, Maximum Group Mean Score = 4.7, Class 3 (rabbit)
OECD Guidelines No.405 (1987)
92/69/EEC Method B5

Slightly yellow: Not available

Skin:
Black: Mild irritant, Primary Irritation Index = 0.7 (rabbit)
OECD Guidelines No.404 (1992)
92/69/EEC Method B4

Slightly yellow: Not available

Sensitization:
Black: Mild sensitizer, Sensitization rate = 20% (2/10) (guinea pig)
96/54/EC Method B6

Slightly yellow: Not available

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

Reproductive Toxicity:
Not available

Carcinogenicity:
Not available

Others:
Not available

Date of Issue: July 10, 1997  Revised: February 14, 2003
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 CONSIDERATIONS
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>

### WHMIS Controlled Product:
- Not applicable (Manufactured article)

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

### SECTION 16 OTHER INFORMATION

- **R phrase list**
  - R11: Highly flammable.
  - R22: Harmful if swallowed.
  - R36: Irritating to eyes.
  - R67: Vapours may cause drowsiness or dizziness.

- **Revised information from the previous version**
  - Entirely revised.
Literature References:
- 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.
- NTP: National Toxicology Program (USA).
- FHSA: Federal Hazardous Substances Act (USA).

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