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

**Product Name:** Canon BJ Cartridge BC-40BK  
**Product Code:** 0890A / F45-0481  
**Manufacturer:** Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Phone # 03-3758-2111  
**Supplier:** Canon USA, Inc., One Canon Plaza, Lake Success, NY, 11042, USA  
**Phone #:** 1-800-OK-CANON, 24 Hr. Emergency CHEMTREC # 1-800-424-9300

### SECTION 2  COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Chemical Name / EC #</th>
<th>Weight %</th>
<th>EU Symbol/ R-Phrase</th>
<th>USA ACGIH TLV</th>
<th>EU ILV</th>
<th>DFG MAK</th>
</tr>
</thead>
</table>
| Glycerin      | 56-81-5/ 200-289-5   | 2 - 6    | None / None         | (as mist) TWA = 15 mg/m³  
Respirable fraction  
TWA = 5 mg/m³ | Not established | Not established |
| Thiodiglycol  | 111-48-8 / 203-874-3 | 2 - 6    | Xi / R36            | Not established | Not established | Not established |
| Isopropyl alcohol | 67-63-0 / 200-661-7 | 2 - 6    | F / R11 / Xi / R36 / R67  
TWA = 400 ppm, 980 mg/m³  
TWA = 400 ppm, 983 mg/m³  
STEL = 500 ppm, 1230 mg/m³ | Not established | Not established | 200 ppm, 500 mg/m³ |
| Tetralithium 6-amino-4-hydroxy-3-(7-sulfonato-4-(5-sulfonato-2-naphthylazo)-1-naphthylazo)naphthalene-2,7-disulfonate | 107246-80-0 / 403-660-1 | 1 - 3    | N / R31/53 | Not established | Not established | Not established |
| Ammonia derivative | Confidential | 2 - 6    | None / None | Not established | Not established | Not established |
| Water         | 7732-18-5 / 231-791-2 | 65 - 85  | None / None | Not established | Not established | Not established |

Date of Issue: October 1, 1996  
Revised: June 26, 2002
SECTION 3  HAZARDS IDENTIFICATION

EU Classification:
Not classified as dangerous.

Emergency Overview:
Ink cartridge containing black liquid ink with slight odor.

Potential Health Effects and Symptoms:

Inhalation:
No adverse effects are expected under intended use.
Glycerin mist may cause physical irritation and difficulty breathing.
Over exposure to isopropyl alcohol may cause headache, nausea, dizziness, vomiting, drowsiness, cough and sore throat.

Ingestion:
Ingestion of glycerin and/or isopropyl alcohol may cause nausea, drowsiness, dizziness, vomiting, abdominal pain, headache, sore throat and dullness.

Eye:
May cause minimal irritation based on the animal test data of this ink. (See SECTION 11)

Skin:
May be no irritation and no sensitization based on the animal test data of this ink. (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 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:
- 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.
- Avoid breathing vapor or mist.

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:
- Avoid breathing vapor or mist.
- Avoid contact with skin, eyes and clothing. When contact, wash out immediately.
- Use with adequate ventilation.

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. (Also refer to 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

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### SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Black liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight odor</td>
</tr>
<tr>
<td>pH</td>
<td>6.5 - 8.5</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>Estimate : 48 - 52 (Tag. closed cup. Estimate : Do not sustain combustion.)</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>Classified as &quot;Combustible liquid&quot; under OSHA-HCS. Not classified as &quot;flammable&quot; or &quot;combustible&quot; under FHSAs. Not classified as &quot;flammable&quot; under 1999/45/EC.</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>1.5 - 2.1</td>
</tr>
</tbody>
</table>

### SECTION 10  STABILITY AND REACTIVITY

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

Acute Toxicity:

**Inhalation:**
Not available

**Ingestion:**
Not available

**Eye:**
Minimal irritant, Maximum Group Mean Score = 4.0 (Class 3) (rabbit)
OECD Guidelines No.405 (1987)
92/69/EEC Method B5

**Skin:**
Non irritant, Primary Irritation Index = 0.0 (rabbit)
OECD Guidelines No.404 (1992)
92/69/EEC Method B4

**Sensitization:**
Non sensitizer, Sensitization rate = 0 % (0/10) (guinea pig)
96/54/EC Method B6

**Mutagenicity:**
Ames test : Negative (test strains: *S.typhimurium*)

**Reproductive Toxicity:**
Not available

**Carcinogenicity:**
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.

**Others:**
Not available
SECTION 12 ECOLOGICAL INFORMATION

Mobility: Not available
Persistence / Degradability: Not available
Bioaccumulation: Not available
Ecotoxicity:
- Tetralithium 6-amino-4-hydroxy-3-[7-sulfonato-4-(5-sulfonato-2-naphthylazo)-1-naphthylazo] naphthalene-2,7-disulfonate (107246-80-0):
  - Fish, Acute Toxicity Test: 96 Hour LC50 560-1000 mg/l, NOEC 560 mg/l (Cyprinus Carpio)
  - Daphnia sp., Acute Immobilization Test: 24 Hour EC50 560-1000 mg/l, NOEC 560 mg/l (Daphnia magna)
  - Daphnia sp., Acute Reproduction Test: 19-Day NOEC 5.6 mg/l, LOEC 18 mg/l (Daphnia magna)

NOEC: No Observed Effect Concentration, LOEC: Lowest Observed Effect Concentration

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
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:
Safety data sheet available for professional user on request.

Specific Provisions in Relation to Protection of Man or the Environment:

76/769/EEC: Not regulated
(EC)2037/2000: Not regulated
(EEC)2455/92: Not regulated
Others: None

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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>

< 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.
R67 : Vapours may cause drowsiness or dizziness.
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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