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

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Canon Ink Cartridge BCI-12 Photo Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code:</td>
<td>0960A/ F47-2761</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 24 Hr. 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 = 5 mg/m³</td>
<td>Not established</td>
<td>Not established</td>
<td></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></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0 / 200-661-7</td>
<td>2 - 6</td>
<td>F / R11, Xi / R36, R67</td>
<td>TWA = 400 ppm, 980 mg/m³</td>
<td>TWA = 200 ppm, 492 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- (Contained only in yellow ink))</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></td>
</tr>
<tr>
<td>C.I. Direct Yellow 173</td>
<td>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></td>
</tr>
<tr>
<td>Copper compound</td>
<td>Confidential</td>
<td>1 - 3</td>
<td>None / None</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Copper and its compounds Inhalable fraction 1.0 mg/m³</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></td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5 / 231-791-2</td>
<td>65 - 85</td>
<td>None / None</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td></td>
</tr>
</tbody>
</table>

Date of Issue: November 24, 1999  
Revised: April 16, 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 three colors ink cartridge. (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

**April 16, 2003**

**Revised:** April 16, 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

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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>Cyan, magenta and yellow liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight odor</td>
</tr>
<tr>
<td>pH</td>
<td>8.2 - 10.4</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 56 - 57 (Tag Closed Cup. Combustion is not sustainable.)</td>
</tr>
<tr>
<td>Flammable (Explosive) Limits</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition Temperature(°C)</td>
<td>Estimate 470 - 490 (ASTM-E659)</td>
</tr>
<tr>
<td>Flammability</td>
<td>Classified as &quot;Combustible liquid&quot; under OSHA-HCS.</td>
</tr>
<tr>
<td></td>
<td>Not Classified as &quot;flammable&quot; or &quot;combustible&quot; under FHSA.</td>
</tr>
<tr>
<td></td>
<td>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>1.6 - 2.6</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></td>
<td>☐ Unstable</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, SOx and Ammonia</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>☐ May Occur</td>
</tr>
<tr>
<td></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:**
- Cyan and Magenta: [Data of similar composition ink] Minimal irritant (rabbit)
  - OECD Guidelines No.405 (1987)
  - 92/69/EEC Method B5
- 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.798.4300
  - OECD Guidelines No.405 (1992)
  - 92/69/EEC Method B5

**Skin:**
- Cyan and Magenta: [Data of similar composition ink] Non irritant (rabbit)
  - OECD Guidelines No.404 (1992)
  - 92/69/EEC Method B4
- 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
  - OECD Guidelines No.404 (1992)
  - 92/69/EEC Method B4

**Sensitization:**
- Cyan: [Data of similar composition ink] Non sensitizer (guinea pig)
- Magenta: [Data of similar composition ink] Non sensitizer (guinea pig)
- Yellow: Non sensitizer, Sensitization rate = 0 % (0/10) (guinea pig)

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

**Reproductive Toxicity:**
Not available

**Carcinogenicity:**
Not available

**Others:**
Not available

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SECTION 12 ECOLOGICAL INFORMATION

Mobility: Not available
Persisten/ 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 ☐ No
Chemical name (wt%): None
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

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< USA Information >

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 %
--- | ---
"Copper Compounds" (Contained only in cyan ink) (as Cu) | 1 - 3 (< 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

<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 Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft.
TWA: Time Weighted Average.
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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