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

**Product Name:** Canon Ink Cartridge BCI-12 Photo Black  
**Product Code:** 0959A/F47-2751  
**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/m³  
Rebreathable fraction TWA = 5 mg/m³ | Not established | Not established | Not established |
| **Ethylene glycol**          | 107-21-1 / 203-473-3 | 2 - 6 | Xn / R22 | Not established | (aerosol) Ceiling = 100 mg/m³  
STEL = 40 ppm, 104 mg/m³ | 10 ppm, 26 mg/m³ |
| **Isopropyl alcohol**        | 67-63-0 / 200-661-7 | 2 - 6 | F / R11, Xi / R36, R67 | TWA = 400 ppm, 980 mg/m³ | TWA = 200 ppm, 492 mg/m³  
STEL = 400 ppm, 984 mg/m³ | Not established | 200 ppm, 500 mg/m³ |
| **Ammonia derivative**       | Confidential | 5 - 10 | None / None | Not established | Not established | Not established | Not established |
| **Water**                    | 7732-18-5 / 231-791-2 | 65 - 85 | None / None | Not established | Not established | Not established | Not established |

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<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:
Ink cartridge containing black liquid ink 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
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 and NOx
  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>Black liquid</td>
</tr>
<tr>
<td>Odor:</td>
<td>Slight odor</td>
</tr>
<tr>
<td>pH:</td>
<td>10.2 - 11.0</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 47.8 (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 539 (ASTM-E659)</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 FHSA. 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>1.3 - 1.9</td>
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</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$_2$, CO$_3$, NOx and Ammonia</td>
</tr>
<tr>
<td>Hazardous Polymerization:</td>
<td>☐ May Occur</td>
</tr>
<tr>
<td>Conditions to Avoid:</td>
<td>☒ Will Not Occur</td>
</tr>
<tr>
<td></td>
<td>None</td>
</tr>
</tbody>
</table>

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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:
Not available

Ingestion:
Not available

Eye:

[Data of similar composition ink]
Minimal irritant (rabbit)
OECD Guidelines No.405 (1987)
92/69/EEC Method B5

Skin:

[Data of similar composition ink]
Non irritant (rabbit)
OECD Guidelines No.404 (1992)
92/69/EEC Method B4

Sensitization:

[Data of similar composition ink]
Non sensitizer (guinea pig)
92/69/EEC Method B6

Mutagenicity:

Ames test: 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%):
☒ 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

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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:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Ethylene glycol&quot; (107-21-1)</td>
<td>2 - 6</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.
R22: Harmful if swallowed.
R36: Irritating 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.
- NTP: National Toxicology Program (USA).
- FHSA: Federal Hazardous Substances Act (USA).

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