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

**Product Name:** Canon Ink Tank BCI-24Color / Canon Ink Tank BCI-24Color Twin Pack  
**Product Code:** 6882A  
**Manufacturer:** Canon Inc.  
30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan  
**Supplier:** Canon Singapore Pte Ltd  
1 HarbourFront Avenue, #04-01, Keppel Bay Tower, Singapore 098632  
**cspl_msdsp@canon.com.sg**  
**Use of the Product:** Ink for Ink Jet Printer

## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient(s)</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) Total dust TWA = 15 mg/m³</td>
<td>(as mist) TWA = 10 mg/m³</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1 / 203-473-3</td>
<td>2 - 6</td>
<td>Xn / R22</td>
<td>Not established</td>
<td>(aerosol) Ceiling = 100 mg/m³</td>
<td>TWA = 20 ppm, 52 mg/m³</td>
<td>STEL = 40 ppm, 104 mg/m³</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>Copper, [29B3,3H-phthalocyaninato(2-) N29,N30,N31,N32], aminosulfonyl sulfo derivs., sodium salts (Contained only in cyan ink)</td>
<td>90295-11-7 / 291-001-7</td>
<td>2 - 6</td>
<td>Xi / R41</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>Isopropyl alcohol</td>
<td>67-63-0 / 200-661-7</td>
<td>1 - 3</td>
<td>F / R11</td>
<td>TWA = 400 ppm, 980 mg/m³</td>
<td>TWA = 200 ppm, 492 mg/m³</td>
<td>STEL = 400 ppm, 984 mg/m³</td>
<td>Not established</td>
</tr>
<tr>
<td>Quinoline derivative (Contained only in magenta ink)</td>
<td>Confidential</td>
<td>1 - 3</td>
<td>Xi / R36</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Triazine derivative (Contained only in magenta ink)</td>
<td>Confidential</td>
<td>1 - 3</td>
<td>Xi / R36 R52/53</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>Lactam (Contained in cyan and yellow ink)</td>
<td>Confidential</td>
<td>2 - 6</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 / 231-791-2</td>
<td>55 - 75</td>
<td>None / None</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>
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 tanks. (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:
May cause mild irritation and no 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:
      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
   X Not Required

   Eye/Face Protection: □ Required
   X Not Required

   Skin Protection: □ Required
   X Not Required
| Property                                | Value                                                                 |
|----------------------------------------|                                                                     |
| **Odor:**                              | Slight odor                                                         |
| **pH:**                                | Not available                                                      |
| **Boiling Point/Range(°C):**            | Not available                                                      |
| **Melting Point/Range(°C):**            | Not available                                                      |
| **Decomposition Temperature(°C):**      | Not available                                                      |
| **Flash Point(°C):**                   | Estimate: 55 - 57 (Tag. Closed Cup. Combustion is not sustainable.) |
| **Flammable (Explosive) Limits:**       | Not available                                                      |
| **Autoignition Temperature(°C):**       | Not available                                                      |
| **Flammability:**                      | Classified as "combustible liquid" under OSHA-HCS.                 |
|                                        | Not classified as "flammable" or "combustible" under FHSA.          |
|                                        | Not classified as "flammable" under 1999/45/EC.                    |
| **Explosive Properties:**              | None                                                                |
| **Oxidizing Properties:**              | None                                                                |
| **Vapor Pressure:**                    | Not available                                                      |
| **Vapor Density:**                     | Not available                                                      |
| **Density / Specific Gravity:**         | 1.04 - 1.10                                                        |
| **Water Solubility:**                  | Miscible                                                            |
| **Fat Solubility:**                    | Not available                                                      |
| **Partition Coefficient (n-Octanol/Water):** | Not available                               |
| **Percent Volatile (%):**              | 55 - 75                                                             |
| **Evaporation Rate:**                  | Not available                                                      |
| **Viscosity (mPa s):**                 | 1.9 - 2.6                                                           |

**SECTION 10 STABILITY AND REACTIVITY**

| Property                               | Value                                                                 |
|----------------------------------------|                                                                     |
| **Stability:**                         | ☒ Stable                                                           |
|                                        | □ Unstable                                                          |
| **Conditions to Avoid:**               | None                                                                |
| **Materials to Avoid:**                | Acids, bases, oxidizing materials and reducing agents              |
| **Hazardous Decomposition Products:**  | CO, CO₂, NOx and Ammonia                                           |
| **Hazardous Polymerization:**          | ☐ May Occur                                                        |
|                                        | ☒ Will Not Occur                                                   |
| **Conditions to Avoid:**               | None                                                                |
SECTION 11  TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:
Not available

Ingestion:
Cyan and Magenta: [Data of similar composition ink] Estimated LD₅₀ > 2500 mg/kg (rat)
OECD Guidelines No.423 (1996)
96/54/EC Method B1 tris
Yellow: Not available

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

Skin:
All colors: [Data of similar composition ink] Mild irritant (rabbit)
OECD Guidelines No.404 (1992)
92/69/EEC Method B4

Sensitization:
All colors: [Data of similar composition ink] Non-sensitizer (guinea pig)
96/54/EC Method B6

Mutagenicity:
Ames test:
All colors: Negative (test strains: S. typhimurium & E. Coli)
Chromosome aberration test:
Magenta: Negative (test strains: Human peripheral blood lymphocytes)
Cyan and Yellow: Not available

Reproductive Toxicity:
Not available

Carcinogenicity:
Not available

Others:
Not available

Date of Issue: June 18, 2001
Revised: December 25, 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 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

Date of Issue: June 18, 2001  Revised: December 25, 2003
MATERIAL SAFETY DATA SHEET

< 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>
<tr>
<td>(contained in cyan and magenta ink)</td>
<td></td>
</tr>
<tr>
<td>&quot;Copper Compounds&quot; (contained only in cyan ink) (as Cu)</td>
<td>2 - 6 (&lt; 0.35)</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.
R41: Risk of serious damage to eyes.
R67: Vapours may cause drowsiness and dizziness.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

<Revised information from the previous version>
Section 2, 7, 9 and 11
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.
- NTP: National Toxicology Program (USA).
- FHSA: Federal Hazardous Substances Act (USA).

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