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

**Product Name:** Canon Ink Tank BCI-1411PC  
**Product Code:** 7578A001AA  
**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_msds@canon.com.sg**

**Use of the Product:** Ink for Ink Jet Printer

**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) 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>Isopropyl alcohol</td>
<td>67-63-0 / 200-661-7</td>
<td>1 - 3</td>
<td>F/ R11, Xi/ R36, R67</td>
<td>TWA = 400 ppm, 980 mg/m³</td>
<td>TWA = 400 ppm, 983 mg/m³</td>
<td>STEL = 500 ppm, 1230 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), alpha, alpha',1,4-dimethyl-1,4-bis(2-methylpropyl)-2-butyne-1,4-diyl)[isocta-9,10-xylylene]-</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>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>Glycol</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 / 231-79-12</td>
<td>50 - 70</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:** June 17, 2002  
**Revised:**
MATERIAL SAFETY DATA SHEET

IC1071-0101

Product Code: 7578A001AA

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:
Not classified as dangerous.

Emergency Overview:

- Ink tank containing cyan liquid ink with slight odor.
- Combustible liquid and vapor.
- Vapor or mist may cause respiratory tract, skin and eye irritation.

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 ethylene glycol, diethylene glycol and/or isopropyl alcohol may cause headache, nausea, dizziness, vomiting, drowsiness, sore throat and cough.

**Ingestion:**
- Ingestion of glycerin, ethylene glycol, diethylene glycol and/or isopropyl alcohol may cause headache, nausea, dizziness, vomiting, drowsiness, sore throat, abdominal pain, dullness and diarrhea.

**Eye:**
- May cause mild irritation based on the animal test data of similar composition ink. (See SECTION 11)

**Skin:**
- May be no irritation and no sensitization based on the animal test data of similar composition 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

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Date of Issue: June 17, 2002

Revised:
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

SECTION 6  ACCIDENTAL RELEASE MEASURES

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

Storage:
- Keep away from heat and flame.
- Keep in a cool and dry place.
- Protect from sunlight.

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
SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Cyan liquid
Odor: Slight odor
pH: 9.0 - 10.0
Boiling Point/Range(°C): Not available
Melting Point/Range(°C): Not available
Decomposition Temperature(°C): Not available
Flash Point(°C): Estimate: 60.7 (Tag. closed cup. Do not sustain combustion.)
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: 1.06
Water Solubility: Miscible
Fat Solubility: Not available
Partition Coefficient (n-Octanol/Water): Not available
Percent Volatile (%): 50 - 70
Evaporation Rate: Not available
Viscosity (mPa s): 2.6 - 3.2

SECTION 10 STABILITY AND REACTIVITY

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: Not available

Eye:

[Data of similar composition ink]
Mild 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 B5

Sensitization:

[Data of similar composition ink]
Non sensitizer (guinea pig)
96/54/EC Method B6

Mutagenicity:

Ames test: Negative (test strains: S.typhimurium & E.Coli)

Reproductive Toxicity:

Not available

Carcinogenicity:

No component of this ink is listed as human carcinogen or potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

Others:

None
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 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  ☒ No
Chemical name (wt%):                             Not required

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

Date of Issue:       June 17, 2002
Revised:
Information on the Label under OSHA HCS:

Signal Word: Not required

Hazard warning:
COMBUSTIBLE LIQUID AND VAPOR.
VAPOR OR MIST MAY CAUSE RESPIRATORY TRACT, SKIN AND EYE IRRITATION.

Safety Advice:
Not required

Hazardous Component(s):
- Glycerin (56-81-5) 5 - 10%
- Ethylene glycol (107-21-1) 2 - 6%
- Isopropyl alcohol (67-63-0) 1 - 3%

SARA Title III §313:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (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.
- R41: Risk of serious damage to eyes.
- R67: Vapours may cause drowsiness and dizziness.

Date of Issue: June 17, 2002
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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