### MATERIAL SAFETY DATA SHEET

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

**Product Name:** Canon Ink Cartridge BJI-201 C

**Product Code:** 0947A

**Manufacturer:** Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan.

**Supplier:** Canon USA Inc., One Canon Park, Melville, NY 11747, USA

**Phone #:** 1-800-OK-CANON, 24 Hr. Emergency CHEMTREC # 1-800-424-9300

**Date of Issue:** December 7, 2001

**Revised:** September 13, 2002

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<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) TWA = 15 mg/m³ Total dust TWA = 5 mg/m³</td>
<td>Not established</td>
<td>Not established</td>
<td></td>
</tr>
<tr>
<td>Thiodiglycol</td>
<td>111-48-8 / 205-874-3</td>
<td>5 - 10</td>
<td>Xi / R36</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Copper, [29H,31H-phthalocyaninato(2-) -N29,N30,N31,N32]-, aminosulfonyl sulfide derivs., sodium salts</td>
<td>90285-11-7 / 291-001-7</td>
<td>2 - 6</td>
<td>Xi / R36</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>Poly(oxy-1,2-ethanediyl), alpha., beta., [1,4-dimethyl-1,4-bis(2-methylpropyl)-2-butyne-1,4-diyl]bis[omega-hydroxy-]</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>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>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>Not established</td>
</tr>
</tbody>
</table>
Emergency Overview:

Ink cartridge containing cyan 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.

Ingestion:
Ingestion of glycerin may cause headache, nausea, dizziness, vomiting, drowsiness, abdominal pain and dullness.

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

Skin:
May cause mild 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.

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 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 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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### PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Cyan liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight odor</td>
</tr>
<tr>
<td>pH</td>
<td>7.0 - 9.5</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 : None</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>Neither flammable nor combustible.</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 - 2.2</td>
</tr>
</tbody>
</table>

### 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>☑ May Occur</td>
</tr>
<tr>
<td>Conditions to Avoid</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 = 8.0 - 10.0, Class 3 (rabbit)
OECD Guidelines No.405 (1987)
92/69/EEC Method B5

Skin:
Mild irritant, Primary Irritation Index = 0.3 (rabbit)
OECD Guidelines No.404 (1992)
92/69/EEC Method B5

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

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%): 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
(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:

Chemical Name | Weight %
--- | ---
"Copper Compounds" (as Cu) | 2 - 6 (< 0.35)

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>

WHMIS Controlled Product: Not applicable (Manufactured article)

Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC.

SECTION 16 OTHER INFORMATION

<R phrase list>
R36: Irritating to eyes.
R41: Risk of serious damage to eyes.

<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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