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

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Color BJ Cartridge BC-81</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code:</td>
<td>F45-1181</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</td>
</tr>
<tr>
<td>MSDS #:</td>
<td>IC0207-0101</td>
</tr>
</tbody>
</table>

### SECTION 2  COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Ingredient(s)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Weight %</th>
<th>EU Symbol</th>
<th>EU R-Phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>56-81-5</td>
<td>5-10</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>&lt; 3</td>
<td>No health risk</td>
<td>No health risk</td>
</tr>
</tbody>
</table>

#### USA OSHA PEL and ACGIH TLV

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>USA OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>(as mist)</td>
<td>(as mist)</td>
</tr>
<tr>
<td></td>
<td>Total dust</td>
<td>TWA = 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA = 15 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Respirable fraction</td>
<td>TWA = 5mg/m³</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>TWA = 400 ppm, 980mg/m³</td>
<td>TWA = 400ppm, 983 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL = 500ppm, 1230 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

#### EU ILV and DFG MAK

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EU ILV</th>
<th>DFG MAK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>Not established</td>
<td>TWA = 200ppm, 500mg/m³</td>
</tr>
</tbody>
</table>
SECTION 2  COMPOSITION/INFORMATION ON INGREDIENTS - Continued

Carcinogen

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other Ingredient(s)

<table>
<thead>
<tr>
<th>Chemical/Generic Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>60 - 90</td>
</tr>
<tr>
<td>Ammonia derivatives</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Glycols</td>
<td>&lt; 8</td>
</tr>
</tbody>
</table>

SECTION 3  HAZARDS IDENTIFICATION

Emergency Overview:

A set of three colors ink cartridge (cyan, magenta, yellow)
All the ink is liquid mixture with slight odor.

Over exposure to vapor or mist may cause irritation.
Combustible liquids.

Potential Health Effects and Symptoms:

Inhalation:
No adverse effects are expected under normal use.
Over exposure to isopropyl alcohol may cause nausea, headache, vomiting, dizziness, drowsiness, cough, sore throat. Glycerin mist may cause physical irritation, difficulty breathing.

Ingestion:
Over ingestion of isopropyl alcohol and glycerin may cause nausea, drowsiness, dizziness, vomiting, abdominal pain, headache, diarrhea, sore throat.

Eye:
May cause minimal irritant based on the animal test data. (See SECTION 11)

Skin:
May cause mild irritant based on the animal test data. (See SECTION 11)

Chronic Effects: Not identified.

Medical Conditions Generally known to be Aggravated by Exposure:
Not identified.

Date of Issue: January 13, 1999  Revised:
SECTION 4  FIRST AID MEASURES

First Aid Measures:

Inhalation: If symptoms are experienced, move victim to fresh air and obtain medical advice.

Ingestion: Give one or two glasses of water. If irritation or discomfort occur, 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:

Flash Point(°C): Cyan 57.9°C/Magenta 58.0°C/Yellow 56.0°C(Tag Closed Cup:Do not sustain combustion)

Flammable(Explosive) Limits: No data available

Autoignition Temperature(°C): No data available

Flammability: Classified as "combustible liquid" under OSHA-HCS(USA) and "non-flammable" under 88/379/EEC(EU)
Fire and Explosive Properties - Continued:

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autoflammability</td>
<td>None</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>None</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>None</td>
</tr>
<tr>
<td>Hazardous Combustion Products</td>
<td>CO, CO₂ and NOₓ.</td>
</tr>
<tr>
<td>Other Properties</td>
<td>None</td>
</tr>
</tbody>
</table>

SECTION 6      ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes and clothing.

Environmental Precautions: It's recommended not to 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.

Storage: Keep out of the reach of children. Store in cool and dry place.
SECTION 8  EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: Not established for this material. See SECTION 2

Engineering Controls: Use usual ventilation to keep airborne concentrations below the permissible exposure limits. (See SECTION 2)

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, magenta and yellow liquid

Odor: Slight odor

pH: 9.2 - 10.7

Boiling Point/Range(°C): No data available

Melting Point/Range(°C): No data available

Decomposition Temperature(°C): No data available

Flash Point(°C): Cyan 57.9°C/Magenta 58.0°C/Yellow 56.0°C (Tag Closed Cup: Do not sustain combustion)

Flammable (Explosive) Limits: No data available

Autoignition Temperature(°C): No data available

Flammability: Classified as "combustible liquid" under OSHA-HCS(USA) and "non-flammable" under 88/379/EEC(EU)

Autoflammability: None

Explosive Properties: None

Oxidizing Properties: None

Vapor Pressure: No data available

Vapor Density: No data available

Density / Specific Gravity: Cyan 1.07/Magenta 1.07/Yellow 1.07

Water Solubility: Miscible

Fat Solubility: No data available

Partition Coefficient (n-Octanol/Water): No data available

Percent Volatile: 65 - 90 %

Evaporation Rate: No data available

Date of Issue: January 13, 1999

Revised:
SECTION 10  STABILITY AND REACTIVITY

Stability:  ☑ Stable  ☐ Unstable

Conditions to Avoid:  None

Materials to Avoid:  None

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:  No data available

Ingestion:  No data available

Eye:

Cyan  - Minimal irritant; Maximum Group Mean Score=5.3 Class 3
Magenta-Minimal irritant; Maximum Group Mean Score=2.7 Class 3
Yellow  - Practically nonirritant; Maximum Group Mean Score=0.7 Class 2 (rabbit)

OECD Guidelines No.405

Skin:

Cyan  - Mild irritant; Primary Irritation Index (PII)=1.7
Magenta - Mild irritant; Primary Irritation Index (PII)=1.0
Yellow - Mild irritant; Primary Irritation Index (PII)=1.5 (rabbit)

OECD Guidelines No.404

Sensitization:  Non sensitiser; Sensitization rate= 0% (0/10) (guinea pig)

OECD Guidelines No.406

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

Reproductive Toxicity:  No data available

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Others: None

SECTION 12  ECOLOGICAL INFORMATION

Mobility: No data available

Persistence / Degradability: No data available

Bioaccumulation: No data available

Ecotoxicity: No data available

Other Adverse Effects: No data available

SECTION 13  DISPOSAL CONSIDERATION

Method of Disposal: Dispose in accordance with all applicable regulations.

SECTION 14  TRANSPORT INFORMATION

UN #: None
UN Shipping Name: None
UN Classification: None
UN Packing Group: None
Special Precautions: None

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Revised:
EU Information:
Information on the Label:
Symbol & Indication: Not required
R-Phrase: Not required

S-Phrase: Not required

Dangerous Component(s): None

Specific Provisions in Relation to Protection of Man or the Environment:
76/769/EEC: Not regulated
(EC)3093/94: Not regulated
(EEC)2455/92: Not regulated
Others: None

USA Information:
Information on the Label:
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>Copper compound</td>
<td>&lt; 5</td>
</tr>
<tr>
<td>As Copper metal</td>
<td>&lt; 0.35</td>
</tr>
<tr>
<td>(Contained only in cyan ink)</td>
<td></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>

Date of Issue: January 13, 1999
Revised:
SECTION 16  OTHER INFORMATION

Other Information:

None

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

Abbreviations:
"EU" stands for European Union.
"OSHA PEL" stands for PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration.
"ACGIH TLV" stands for TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
"EU ILV" stands for Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC.
"DFG MAK" stands for MAK(Maximale Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft.
"TWA" stands for Time Weighted Average.
"IARC" stands for International Agency for Research on Cancer.
"NTP" stands for National Toxicology Program (USA).

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Date of Issue: January 13, 1999

Revised Date: January 13, 1999