SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier:
Product Name: Canon Ink Tank BCI-3ePBK Photo
Product Code: 4485A
Relevant Identified Uses: Ink for Ink Jet Printer

Details of Supplier of Safety Data Sheet:
Supplier: Canon USA, Inc.,
Address: One Canon Park, Melville, NY 11747, USA
Telephone Number: 1-800-OK-CANON
E-mail Address: 
Emergency Telephone Number:

24 Hr. Emergency CHEMTREC # 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview:
Ink tank containing black liquid ink with slight odor.

US Regulatory Status under FHSA:
Not classified as hazardous.

US Label Elements under FHSA:
Signal Word: Not required
Hazard Warning: Not required
Safety Advice: Not required
Hazardous Component: Not required

EU Classification under 1999/45/EC:
Not classified as dangerous.

EU Label Elements under 1999/45/EC:
Symbol & Indication: Not required
R-Phrase: Not required
S-Phrase: Not required
Dangerous Component: Not required

Applicable Label Elements in accordance with Annex V to 1999/45/EC:
Not required

Other Hazards:
None
## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

### Substance or Mixture: Mixture

### Ingredient(s):

| Chemical Name/ Generic Name | CAS #/# | Concentration Range (%) | EU Classification according to 67/548/EEC | EU Classification according to (EC) No 1272/2008 | Note to Other Hazards
|----------------------------|---------|--------------------------|---------------------------------------------|-------------------------------------------------|---------------------
| Glycerin                  | 56-81-5 / 200-289-5 | 5 - 10                   | None                                        | None                                            | None                |
| Diethylene glycol         | 111-46-6 / 203-872-2 | 5 - 10                   | Xn / Harmful                                | Acute Tox. 4                                   | H302                |
| Ethylene glycol           | 107-21-1 / 203-473-3 | 1 - 5                    | Xn / Harmful                                | Acute Tox. 4                                   | H302                |
| Isopropyl alcohol         | 67-63-0 / 200-661-7 | 1 - 5                    | F / Highly flammable                        | Flam. Liq. 2                                   | H225               |
| Tetralithium 6-amino-4-hydroxy-3(7-sulfonato-4-5-sulfonato-2-naphthylazo)-1-naphthylazo/naphthalene-2,7-disulfonate | 107246-80-0 / 403-660-1 | 1 - 5 | N / Dangerous for Environment | R51/53 | Aquatic Chronic 2 | H411 |
| Ammonia derivative        | Confidential       | 10 - 15                  | None                                        | None                                            | None                |
| Water                     | 7732-18-5 / 231-791-2 | 60 - 80                  | None                                        | None                                            | None                |

*1 Full texts of R-phrase(s) and Hazard statement(s) are listed in SECTION 16

*2 The following substance(s) is (are) marked with (1), (2) and/or (3)

(1) Substance for which Occupational Exposure Limit(s) is (are) established (See SECTION 8)
(2) PBT substance or vPvB substance under Regulation (EC) No 1907/2006
(3) Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 1907/2006

### Carcinogen(s):

No component of this ink is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Part 3 of Annex VI to Regulation (EC) No 1272/2008.
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.

Skin:
Wash with water and soap or mild detergent.
If irritation persists, 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.

Most Important Symptoms and Effects, both Acute and Delayed:

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.

Skin:
May cause mild irritation and no sensitization. (See SECTION 11)

Eye:
May cause minimal irritation. (See SECTION 11)

Chronic Effects:
Not identified

Indication of Any Immediate Medical Attention and Special Treatment Needed:
None

SECTION 5  FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media:
CO₂, water, foam or dry chemicals

Unsuitable Extinguishing Media:
None

Special Hazards:
None

Hazardous Combustion Products:
CO, CO₂, SiO₂, NOx and SOx

Advice for Fire-fighters:
None

SECTION 6  ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid contact with skin, eyes and clothing.

Environmental Precautions:
Do not release to sewer, surface water or ground water.

Methods and Material for Containment and Cleaning Up:
Wipe off with wet cloth or paper.
SECTION 7  HANDLING AND STORAGE

Precautions for Safe Handling:
Use with adequate ventilation.
Avoid contact with skin, eyes and clothing.
In case of contact, wash out the contaminated area immediately.

Conditions for Safe Storage, Including Any Incompatibilities:
Keep in a cool and dry place. Protect from sunlight.
Keep away from heat and flame.
Keep out of the reach of children.

Specific End Uses:
Ink for Ink Jet Printer.
For more information, please refer to the instruction of this product.

SECTION 8  EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters: USA ACGIH TLV EU OEL DFG MAK

<table>
<thead>
<tr>
<th>Product (Ink)</th>
<th>OSHA PEL</th>
<th>Not established</th>
<th>Not established</th>
<th>Not established</th>
<th>Not established</th>
</tr>
</thead>
</table>

Glycerin
- Glycerin mist; TWA 15 mg/m³ (Total dust)
- TWA 5 mg/m³ (Respirable fraction)
- Glycerin mist; TWA 10 mg/m³
- Not established
- Not established

Ethylene glycol
- Not established
- aerosol: Ceiling 100 mg/m³
- TWA 20 ppm, 52 mg/m³
- STEL 40 ppm, 104 mg/m³
- 10 ppm, 26 mg/m³

Diethylene glycol
- Not established
- Not established
- Not established
- 10 ppm, 44 mg/m³

Isopropyl alcohol
- 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

Exposure Controls:
- Engineering Controls: No special ventilation equipment is needed under intended use of this product.
- Individual Protection Measures:
  - Eye/Face Protection: Not Required
  - Skin Protection: Not Required
  - Respiratory Protection: Not Required

Date of Issue: June 6, 2000
Revision Date: September 22, 2011
### 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>9 - 10</td>
</tr>
<tr>
<td>Melting Point/Freezing Point (°C):</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Range (°C):</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point (°C):</td>
<td>56.0 (Tag Closed Cup. Combustion is not sustainable.)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</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>Upper/Lower Flammable or Explosive Limits</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>1.0 - 1.1</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>Auto-ignition Temperature (°C):</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature(°C):</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity (mPa s):</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>None (Estimate)</td>
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<tr>
<td>Oxidizing Properties</td>
<td>None (Estimate)</td>
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<tr>
<td>Other Information</td>
<td>Not available</td>
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</table>

### SECTION 10  STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>None</td>
</tr>
<tr>
<td>Chemical Stability</td>
<td>✚ Stable  □ Unstable</td>
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<tr>
<td>Possibility of Hazardous Reactions</td>
<td>None</td>
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<tr>
<td>Conditions to Avoid</td>
<td>None</td>
</tr>
<tr>
<td>Incompatible Materials</td>
<td>Acids, bases, oxidizing materials and reducing agents</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>CO, CO₂, SiO₂, NOₓ, SOₓ and Ammonia</td>
</tr>
</tbody>
</table>
SECTION 11  TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:

Acute Toxicity:

Inhalation:
Not available

Ingestion:
Estimated LD₅₀ > 2500 mg/kg (rat)
OECD Guidelines No. 423 (1996), 96/54/EC Method B1 tris

Corrosivity/Irritation:
Skin:
Mild irritant (rabbit)
OECD Guidelines No. 404 (1992), 92/69/EEC Method B4

Eye:
Minimal irritant (rabbit)

Sensitization:
Skin:
Non-sensitizer (guinea pig)
OECD Guidelines No. 406 (1992), 96/54/EC Method B6

Repeated Dose Toxicity:
Not available

Carcinogenicity:
Not available

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

Toxicity for Reproduction:
Not available

Other Information:
Not available
SECTION 12  ECOLOGICAL INFORMATION
Toxicity: Not available
Persistence and Degradability: Not available
Bioaccumulative Potential: Not available
Mobility in Soil: Not available
Results of PBT and vPvB Assessment: No results that the component(s) of this ink meet(s) the PBT or vPvB criteria under Regulation (EC) No 1907/2006.
Other Adverse Effects: Not available

SECTION 13  DISPOSAL CONSIDERATIONS
Waste Treatment Methods:
Disposal should be subject to federal, state and local laws.

SECTION 14  TRANSPORT INFORMATION
UN Number: None
UN Proper Shipping Name: None
Transport Hazard Class: None
Packing Group: None
Environmental Hazards: Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.
Special Precautions for User: None

SECTION 15  REGULATORY INFORMATION
< USA Information >
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>1 - 5</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>

< EU Information >
Safety, Health and Environmental Regulations/Legislation:
(EC) No 1907/2006: Authorisation: Not regulated
Restriction: Not regulated
(EC) No 1005/2009: Not regulated
(EC) No 850/2004: Not regulated
(EC) No 689/2008: Not regulated
Others: None

Chemical Safety Assessment under (EC) No 1907/2006: Not required

< 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

<EU R-phrase according to 67/548/EEC>
R11: Highly flammable.
R22: Harmful if swallowed.
R36: Irritating to eyes.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67: Vapours may cause drowsiness and dizziness.

<EU Hazard statement according to (EC) No 1272/2008>
H225: Highly flammable liquid and vapour.
H302: Harmful if swallowed.
H319: Causes serious eye irritation.
H336: May cause drowsiness and dizziness.
H411: Toxic to aquatic life with long lasting effects.

<Revised information from the previous version>
Entirely revised

<Term explanation>
Estimate: Estimate based on data of similar product or the ingredient(s) of this product.

Literature References:
- 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
- EU Directive 1999/45/EC
- Canada Workplace Hazardous Materials Information System

Abbreviations:
OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA)
FHS: Federal Hazardous Substances Act (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
SVHC: Substances of Very High Concern
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program (USA)
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
WHMIS: Workplace Hazardous Materials Information System
NOHSC: National Occupational Health and Safety Commission

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