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

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Canon Ink Tank PFI-304MBk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code:</td>
<td>3848B</td>
</tr>
<tr>
<td>Manufacturer:</td>
<td>Canon Inc., 30-2, Shimonomuruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph# 03-3758-2111</td>
</tr>
<tr>
<td>Supplier:</td>
<td>Canon U.S.A., Inc., One Canon Park, Melville, NY 11747, USA</td>
</tr>
<tr>
<td>Phone #:</td>
<td>1-800-OK-CANON 24 Hr. Emergency CHEMTREC # 1-800-424-9300</td>
</tr>
</tbody>
</table>

SECTION 2  HAZARDS IDENTIFICATION

EU Classification:
Not classified as dangerous.

Emergency Overview:
Ink tank containing black liquid ink with slight odor.
Vapor or mist may cause respiratory tract and eye irritation.

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:**
No irritation is expected. (See SECTION 11)

**Skin:**
Neither irritation nor sensitization is expected. (See SECTION 11)

**Chronic Effects:**
Not identified

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

Date of Issue: June 12, 2009  Revised:  

---

**Canon**  
MATERIAL SAFETY DATA SHEET  
MSDS #: IC2008-0101  
Product Code: 3848B  
Page 1 of 8
### SECTION 3   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>10 - 15</td>
<td>None/ None</td>
<td>(as mist) TWA = 15 mg/m³</td>
<td>(as mist) TWA = 10 mg/m³</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Triethylene glycol</td>
<td>112-27-6 / 203-953-2</td>
<td>5 - 10</td>
<td>None/ None</td>
<td>TWA = 5 mg/m³</td>
<td>Not established</td>
<td>Not established</td>
<td>1000 mg/m³</td>
</tr>
<tr>
<td>Lactam</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>60 - 80</td>
<td>None/ None</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

---

**< Carcinogen >**

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.

---

**< PBT substance and vPvB substance >**

No component of this ink is a PBT or vPvB substance under Regulation (EC) No 1907/2006.
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:
CO₂, NOx and SOx

Other Properties:
None

SECTION 6 ACCIDENTAL RELEASE MEASURES
Personal Precautions:
Avoid contact with skin, eyes and clothing.
Avoid breathing vapor and mist.

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 and mist.
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 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 3)
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

<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>8 - 9</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>None (Estimate)</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 (Estimate)</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>None (Estimate)</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>1.0 - 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>Percent Volatile (%)</td>
<td>60 - 80</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity (mPa s)</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

SECTION 10  STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>☐ Stable  ☑ Unstable</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 and SOx</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>☐ May Occur  ☑ 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:** Practically non-irritant (rabbit)  

- **Skin:** Non-irritant (rabbit)  

**Sensitization:**

- Non-sensitizer (mouse)  

**Mutagenicity:**

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

**Reproductive Toxicity:**

- Not available

**Carcinogenicity:**

- Not available

**Others:**

- Not available
### SECTION 12  ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobility</td>
<td>Not available</td>
</tr>
<tr>
<td>Persistence/Degradability</td>
<td>Not available</td>
</tr>
<tr>
<td>Bioaccumulation</td>
<td>Not available</td>
</tr>
<tr>
<td>Ecotoxicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Other Adverse Effects</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### SECTION 13  DISPOSAL CONSIDERATIONS

**Method of Disposal:**
Disposal should be subject to federal, state and local laws.

### SECTION 14  TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN #</td>
<td>None</td>
</tr>
<tr>
<td>UN Shipping Name</td>
<td>None</td>
</tr>
<tr>
<td>UN Classification</td>
<td>None</td>
</tr>
<tr>
<td>UN Packing Group</td>
<td>None</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>Yes</td>
</tr>
<tr>
<td>Chemical name (wt %)</td>
<td>No</td>
</tr>
<tr>
<td>Special Precautions</td>
<td>None</td>
</tr>
</tbody>
</table>

### 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):** Not required
- **Special Precautions under 1999/45/EC Annex V:** Not required

**Specific Provisions in Relation to Protection of Man or the Environment:**

- **(EC) No 1907/2006 Annex XVII (Restrictions):** Not regulated
- **(EC) No 2037/2000:** Not regulated
- **(EC) No 689/2008:** Not regulated
- **Others:** None
< USA Information >

Information on the Label under OSHA HCS:

Signal Word: Not required

Hazard warning: VAPOR OR MIST MAY CAUSE RESPIRATORY TRACT AND EYE IRRITATION.

Safety Advice: Not required

Hazardous Component(s): Not required

SARA Title III §313:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</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>

< 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

< Term explanation >

Estimate: Estimate based on data of similar ink or the ingredient(s).
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
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission’s Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008]

Abbreviations:
EU: European Union,
OSHA PEL: (Permissible Exposure Limit) under Occupational Safety and Health Administration (USA),
ACGIH TLV: TLV (Threshold Limit Value) under American Conference of Governmental Industrial Hygienists,
DG MAK: MAK Maximal Arbeitsplatz Konzentration) under Deutsche Forschungsgemeinschaft,
TWA: Time Weighted Average,
STEL: Short Term Exposure Limit,
IARC: International Agency for Research on Cancer,
NTP: National Toxicology Program (USA),
OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA),
FIRSA: Federal Hazardous Substances Act (USA),
WHMIS: Workplace Hazardous Materials Information System,
NOHSC: National Occupational Health and Safety Commission,
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

The information, data and recommendations set forth herein (the "Information") are presented in good faith and are believed to be correct as of the date heretofore. The company/manufacturer makes no representations as to the completeness or accuracy of the information and disclaims responsibility for any reliance thereon. The Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal, state and local laws and regulations. In no event will the company/manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO THE INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.