# MATERIAL SAFETY DATA SHEET

**Section 1: Identification of the Substance/Preparation and of the Company/Undertaking**

- **Product Name:** Canon Ink Tank BCI-62 Photo
- **Product Code:** 0969A / F47-1881
- **Company Name:** Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph # 03-3758-2111
- **Supplier:** Canon USA, Inc., One Canon Park, Melville, NY 11747, USA
- **Phone #:** 1-800-OK-CANON 24 Hr. Emergency CHEMTREC # 1-800-424-9300

**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/m&lt;sup&gt;3&lt;/sup&gt; Respirable fraction TWA = 5 mg/m&lt;sup&gt;3&lt;/sup&gt;</td>
<td>(as mist) TWA = 10 mg/m&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>Thiodiglycol</td>
<td>111-48-8 / 203-874-3</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>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/m&lt;sup&gt;3&lt;/sup&gt;</td>
<td>TWA = 400 ppm, 983 mg/m&lt;sup&gt;3&lt;/sup&gt; STEL = 500 ppm, 1230 mg/m&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Not established</td>
<td>200 ppm, 500 mg/m&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>Copper, [29H,3H-phthalocyaninato(2-)-NS2,N30][N31,N32]-, aminosulfonyl sulfo derivs., sodium salts (Contained only in cyan ink)</td>
<td>90295-11-7 / 291-001-7</td>
<td>&lt; 3</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/m&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>C.I. Direct Violet 107 - The substance name in accordance with 67/547/EEC is stated in SECTION 16 (Contained only in magenta ink)</td>
<td>Not registered / 413-180-4</td>
<td>&lt; 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>C.I. Direct Yellow 173 (Contained only in yellow ink)</td>
<td>Not registered / 414-410-6</td>
<td>&lt; 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 / 231-79-12</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>

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< Carcinogen >
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.

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:
Not classified as dangerous.

Emergency Overview:
A set of six colors ink tanks. (Cyan, Magenta, Yellow, Light cyan, Light magenta and Light yellow)
All the ink is liquid mixture with slight odor.

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:
May cause minimal irritation. (See SECTION 11)

Skin:
May cause mild irritation and no sensitization. (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 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

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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:
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 away from heat and flame.
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 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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### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Cyan, magenta and yellow liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight odor</td>
</tr>
<tr>
<td>pH</td>
<td>9.2 - 11.0</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: 55 - 60 (Tag Closed Cup. Combustion is not sustainable.)</td>
</tr>
<tr>
<td>Flammable (Explosive) Limits:</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition Temperature(°C):</td>
<td>Estimate: 440 - 460 (ASTM-E659)</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Classified as &quot;Combustible liquid&quot; under OSHA-HCS. Not classified as &quot;flammable” or “combustible” under FHSA. Not classified as &quot;flammable” under 1999/45/EC.</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>60 - 80</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity (mPa s):</td>
<td>1.5 - 2.4</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</td>
</tr>
<tr>
<td>Unstable</td>
<td></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>☒ Will Not Occur</td>
<td></td>
</tr>
<tr>
<td>Conditions to Avoid:</td>
<td>None</td>
</tr>
</tbody>
</table>

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SECTION 11      TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:
Not available

Ingestion:
Not available

Eye:
Cyan : Minimal irritant, Maximum Group Mean Score = 4.0, Class 3 (rabbit)
Magenta : Minimal irritant, Maximum Group Mean Score = 5.3, Class 3 (rabbit)
Yellow : Minimal irritant, Maximum Group Mean Score = 5.3, Class 3 (rabbit)
Light cyan, Light magenta and Light yellow : [Data of similar composition ink] Minimal irritant (rabbit)
OECD Guidelines No.405 (1987)
92/69/EEC Method B5

Skin:
Cyan : Mild irritant, Primary Irritation Index = 0.5 (rabbit)
Magenta : Mild irritant, Primary Irritation Index = 0.3 (rabbit)
Yellow : Mild irritant, Primary Irritation Index = 0.7 (rabbit)
Light cyan, Light magenta and Light yellow : [Data of similar composition ink] Minimal irritant (rabbit)
OECD Guidelines No.404 (1992)
92/69/EEC Method B4

Sensitization:
Cyan : Non sensitizer, Sensitization rate = 0 % (0/10) (guinea pig)
Magenta : Non sensitizer, Sensitization rate = 0 % (0/10) (guinea pig)
Yellow : Non sensitizer, Sensitization rate = 0 % (0/10) (guinea pig)
Light cyan, Light magenta and Light yellow : [Data of similar composition ink] Non sensitizer (guinea pig)
96/54/EC Method B6

Mutagenicity:
Ames test :
All colors : Negative (test strains: S.typhimurium)

Reproductive Toxicity:
Not available

Carcinogenicity:
Not available

Others:
Not available

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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 should 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  Chemical name (wt%):  ☒ No

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
**USA Information**

**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:**

<table>
<thead>
<tr>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Copper Compounds&quot; (Contained only in cyan ink) (as Cu)</td>
</tr>
<tr>
<td>Weight %</td>
</tr>
<tr>
<td>1 - 3</td>
</tr>
<tr>
<td>&lt; 0.35</td>
</tr>
</tbody>
</table>

**California Proposition 65:**

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

**< USA Information >**

**< 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**

**<SECTION 2 Ingredient(s) / Substance name(s)>**

"C. I. Direct Violet 107": A mixture of: sodium 5-[4-[4-[7-(3,5-dicarboxylatophenylazo)-8-hydroxy-3,6-disulfonatonaphthalen-1-ylamino]-6-hydroxy-1,3,5-triazin-2-yl]-2,5-dimethylpiperazin-1-yl]-6-hydroxy-1,3,5-triazin-2-ylamino]-1 hydroxy-3,6-disulfonatonaphthalen-2-ylazo]isophthalic acid; ammonium 5-[4-[4-[7-(3,5-dicarboxylatophenylazo)-8-hydroxy-3,6-disulfonatonaphthalen-1-ylamino]-6-hydroxy-1,3,5-triazin-2-yl]-2,5-dimethylpiperazin-1-yl]-6-hydroxy-1,3,5-triazin-2-ylamino]-1 hydroxy-3,6-disulfonatonaphthalen-2-ylazo]isophthalic acid; 5-[4-[4-[7-(3,5-dicarboxylatophenylazo)-8-hydroxy-3,6-disulfonatonaphthalen-1-ylamino]-6-hydroxy-1,3,5-triazin-2-yl]-2,5-dimethylpiperazin-1-yl]-6-hydroxy-1,3,5-triazin-2-ylamino]-1 hydroxy-3,6-disulfonatonaphthalen-2-ylazo]isophthalic acid"

**<R phrase list>**

R11: Highly flammable. R36: Irritating to eyes.

R41: Risk of serious damage to eyes. R67: Vapours may cause drowsiness and dizziness.

**<Revised information from the previous version>**

Entirely revised.

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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).
- FSHA: Federal Hazardous Substances Act (USA).

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