MATERIAL SAFETY DATA SHEET

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

Product Identifier:
Product Name: Canon Ink Tank BCI-24Color / Canon Ink Tank BCI-24Color Twin Pack
Product Code: 6882A

Relevant Identified Uses: Ink for Ink Jet Printer

Details of Supplier of Safety Data Sheet:
Supplier: Canon Europa NV
Address: Bovenkerkerweg 59, 1185XB Amstelveen, The Nederlands
Telephone Number: +31 20 5458545, +31 20 5458222
E-mail Address: www.canon-europe.com, ceu-Reach@canon-europe.com

Emergency Telephone Number: DENMARK: +45 82 12 12 12; GERMANY: +49 30 19240, +49 761 19240;
BELGIUM & NETHERLANDS: +32 70 245 245; FRANCE: +33 1 40 05 48 48;
UK only 0845 4647; FINLAND: +358 9 471 977; SWEDEN: +46 8 33 12 31

Manufacturer: Canon Inc.
Address: 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview:
A set of three colors ink tanks. (Cyan, Magenta and Yellow)
All the ink is liquid mixture 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  

<table>
<thead>
<tr>
<th>Chemical Name/ Generic Name</th>
<th>CAS #/ EC #</th>
<th>Concentration/ Concentration Range (%)</th>
<th>EU Classification according to 67/548/EEC Symbol/ Indication of Danger</th>
<th>EU Classification according to (EC) No 1272/2008 Hazard Class/ Category Code</th>
<th>Note to Other Hazards*2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>56-81-5 / 200-289-5</td>
<td>5 - 10</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Ethylene glycol (Contained in cyan and magenta ink)</td>
<td>107-21-1 / 203-473-3</td>
<td>1 - 10</td>
<td>Xn / Harmful</td>
<td>R22</td>
<td>Acute Tox. 4</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6 / 203-872-2</td>
<td>1 - 5</td>
<td>Xn / Harmful</td>
<td>R22</td>
<td>Acute Tox. 4</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0 / 200-661-7</td>
<td>1 - 5</td>
<td>F / Highly flammable</td>
<td>R11</td>
<td>Flam. Liq. 2</td>
</tr>
<tr>
<td>Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-aminosulfonyl sulfo derivs., sodium salts (contained only in cyan ink)</td>
<td>90295-11-7 / 291-001-7</td>
<td>1 - 5</td>
<td>Xi / Irritant</td>
<td>R41</td>
<td>Eye Dam. 1</td>
</tr>
<tr>
<td>Quinoline derivative (contained only in magenta ink)</td>
<td>Confidential</td>
<td>1 - 5</td>
<td>Xi / Irritant</td>
<td>R36</td>
<td>Eye Irrit. 2</td>
</tr>
<tr>
<td>Triazine derivative (contained only in magenta ink)</td>
<td>Confidential</td>
<td>1 - 5</td>
<td>Xi / Irritant</td>
<td>R36</td>
<td>Eye Irrit. 2</td>
</tr>
<tr>
<td>Ammonia derivative</td>
<td>Confidential</td>
<td>5 - 15</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Lactam (contained in cyan and yellow ink)</td>
<td>Confidential</td>
<td>1 - 10</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5 / 231-791-2</td>
<td>60 - 80</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

*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>
<tbody>
<tr>
<td>Glycerin</td>
<td>Glycerin mist; TWA 15 mg/m³ (Total dust) TWA 5 mg/m³ (Respirable fraction)</td>
<td>Glycerin mist; TWA 10 mg/m³</td>
<td>Not established</td>
<td>Not established</td>
<td></td>
</tr>
<tr>
<td>Ethylene glycol (Contained in cyan and magenta ink)</td>
<td>Not established</td>
<td>aerosol: Ceiling 100 mg/m³</td>
<td>TWA 20 ppm, 52 mg/m³ STEL 40 ppm, 104 mg/m³</td>
<td>10 ppm, 26 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>Not established</td>
<td>Not established</td>
<td>Not established</td>
<td>10 ppm, 44 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>TWA 400 ppm, 980 mg/m³</td>
<td>TWA 200 ppm, 492 mg/m³ STEL 400 ppm, 964 mg/m³</td>
<td>Not established</td>
<td>200 ppm, 500 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Exposure Controls:
Engineering Controls: No special ventilation equipment is needed under intended use of this product.
Individual Protection Measures:
Eye/Face Protection: ☐ Required ☒ Not Required
Skin Protection: ☐ Required ☒ Not Required
Respiratory Protection: ☐ Required ☒ Not Required
### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic 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>7 - 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>55 - 58 (Tag Closed Cup. Combustion is not sustainable.) (Estimate)</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>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>None (Estimate)</td>
</tr>
<tr>
<td>Other Information</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### SECTION 10 STABILITY AND REACTIVITY

Reactivity: None

Chemical Stability: [x] Stable [ ] Unstable

Possibility of Hazardous Reactions: None

Conditions to Avoid: None

Incompatible Materials: Acids, bases, oxidizing materials and reducing agents

Hazardous Decomposition Products: CO, CO₂, SiO₂, NOₓ, SOₓ and Ammonia
SECTION 11  TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:

Acute Toxicity:
Inhalation:
Not available

Ingestion:
Cyan and Magenta: Estimated LD_{50} > 2500 mg/kg (rat) (Estimate)
OECD Guidelines No. 423 (1996), 96/54/EC Method B1 tris
Yellow: Not available

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

Eye:
Cyan and Magenta: Minimal irritant (rabbit) (Estimate)
Yellow: Minimal irritant (rabbit)

Sensitization:
Skin:
Cyan and Magenta: Non-sensitizer (guinea pig) (Estimate)
Yellow: 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:
All colors: Negative (S. typhimurium & E. Coli)
Chromosome aberration test:
Magenta: Negative (Human peripheral blood lymphocytes)
Cyan and Yellow: Not available

Toxicity for Reproduction:
Not available

Other Information:
Not available
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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) (Contained in cyan and magenta ink)</td>
<td>1 - 10</td>
</tr>
<tr>
<td>&quot;Copper Compounds&quot; (Contained only in cyan ink) (as Cu)</td>
<td>1 - 5 (&lt; 0.35)</td>
</tr>
</tbody>
</table>

California Proposition 65:

Chemical Name

< 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.

Date of Issue: June 18, 2001
Revision Date: September 22, 2011
SECTION 16 OTHER INFORMATION

<EU R-phrase according to 67/548/EEC>
R11: Highly flammable.
R22: Harmful if swallowed.
R36: Irritating to eyes.
R41: Risk of serious damage to eyes.
R52/53: Harmful 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.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H336: May cause drowsiness and dizziness.
H412: Harmful 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)
FHSA: 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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