Canon

# MATERIAL SAFETY DATA SHEET

MSDS #: IC1233-0202
Product Code: 6882A

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

**Product Name:** Canon Ink Tank BCI-24Color / Canon Ink Tank BCI-24Color Twin Pack

**Product Code:** 6882A

**Manufacturer:** Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph# 03-3758-2111

**Supplier:** Canon USA, Inc., One Canon Plaza, Lake Success, NY, 11042, USA

**Phone # :** 1-800-OK-CANON 24 Hr. Emergency CHEMTREC # 1-800-424-9300

## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

**< Ingredient(s) >**

| Chemical Name / Generic name | CAS # / EC # | Weight % | EU Symbol/ R-Phrase | USA OSHA PEL | ACGIH TLV | EU ILV | DFG MAK |
|---|---|---|---|---|---|---|---|
| Glycerin | 56-81-5 / 200-289-5 | 5 - 10 | None / None | (as mist) Total dust TWA = 15 mg/m$^3$ Respirable fraction TWA = 5 mg/m$^3$ | (as mist) TWA = 10 mg/m$^3$ | Not established | Not established |
| Ethylene glycol (Contained in cyan and magenta ink) | 107-21-1 / 203-473-3 | 2 - 6 | Xn / R22 | Not established | (aerosol) Ceiling = 100 mg/m$^3$ | TWA = 20 ppm, 52 mg/m$^3$ STEL = 40 ppm, 104 mg/m$^3$ | 10 ppm, 26 mg/m$^3$ |
| Diethylene glycol | 111-46-6 / 203-872-2 | 2 - 6 | Xn / R22 | Not established | Not established | Not established | 10 ppm, 44 mg/m$^3$ |
| Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, aminosulfonyl sulfo derivs., sodium salts (Contained only in cyan ink) | 90295-11-7 / 291-001-7 | 2 - 6 | Xi / R41 | Not established | Not established | Not established | Copper and its compounds Inhalable fraction 1.0 mg/m$^3$ |
| Isopropyl alcohol | 67-63-0 / 200-661-7 | 1 - 3 | F / R11 Xi / R36 R67 | TWA = 400 ppm, 980 mg/m$^3$ | TWA = 200 ppm, 492 mg/m$^3$ STEL = 400 ppm, 984 mg/m$^3$ | Not established | 200 ppm, 500 mg/m$^3$ |
| Quinoline derivative (Contained only in magenta ink) | Confidential | 1 - 3 | Xi / R36 | Not established | Not established | Not established | Not established |
| Triazine derivative (Contained only in magenta ink) | Confidential | 1 - 3 | Xi / R36 R52/53 | Not established | Not established | Not established | Not established |
| Ammonia derivative | Confidential | 5 - 10 | None / None | Not established | Not established | Not established | Not established |
| Lactam (Contained in cyan and yellow ink) | Confidential | 2 - 6 | None / None | Not established | Not established | Not established | Not established |
| Water | 7732-18-5 / 231-791-2 | 55 - 75 | None / None | Not established | Not established | Not established | Not established |

**< 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 three colors ink tanks. (Cyan, Magenta and 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:**
$CO_2$, 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, $CO_2$ and NOx

**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

| | |
|---|---|
| **Appearance:** | Cyan, magenta and yellow liquid |
| **Odor:** | Slight odor |
| **pH:** | 8.0 - 10.0 |
| **Boiling Point/Range(°C):** | Not available |
| **Melting Point/Range(°C):** | Not available |
| **Decomposition Temperature(°C):** | Not available |
| **Flash Point(°C):** | Estimate: 55 - 57 (Tag. Closed Cup. Combustion is not sustainable.) |
| **Flammable (Explosive) Limits:** | Not available |
| **Autoignition Temperature(°C):** | Not available |
| **Flammability:** | Classified as "combustible liquid" under OSHA-HCS.<br>Not classified as "flammable" or "combustible" under FHSA.<br>Not classified as "flammable" under 1999/45/EC. |
| **Explosive Properties:** | None |
| **Oxidizing Properties:** | None |
| **Vapor Pressure :** | Not available |
| **Vapor Density :** | Not available |
| **Density / Specific Gravity:** | 1.04 - 1.10 |
| **Water Solubility :** | Miscible |
| **Fat Solubility :** | Not available |
| **Partition Coefficient (n-Octanol/Water):** | Not available |
| **Percent Volatile (%):** | 55 - 75 |
| **Evaporation Rate:** | Not available |
| **Viscosity (mPa s):** | 1.9 - 2.6 |

## SECTION 10 STABILITY AND REACTIVITY

| | |
|---|---|
| **Stability:** | ☒ Stable<br>☐ Unstable |
| **Conditions to Avoid:** | None |
| **Materials to Avoid:** | Acids, bases, oxidizing materials and reducing agents |
| **Hazardous Decomposition Products:** | CO, $CO_2$, NOx and Ammonia |
| **Hazardous Polymerization:** | ☐ May Occur<br>☒ Will Not Occur |
| **Conditions to Avoid:** | None |

## SECTION 11 TOXICOLOGICAL INFORMATION

**Acute Toxicity:**

**Inhalation:**

Not available

**Ingestion:**

Cyan and Magenta: [Data of similar composition ink] Estimated $LD_{50}$ > 2500 mg/kg (rat)
OECD Guidelines No.423 (1996)
96/54/EC Method B1 tris
Yellow: Not available

**Eye:**

All colors: [Data of similar composition ink] Minimal irritant (rabbit)
OECD Guidelines No.405 (1987)
92/69/EEC Method B5

**Skin:**

All colors: [Data of similar composition ink] Mild irritant (rabbit)
OECD Guidelines No.404 (1992)
92/69/EEC Method B4

**Sensitization:**

All colors: [Data of similar composition ink] Non-sensitizer (guinea pig)
OECD Guidelines No.406 (1992)
96/54/EC Method B6

**Mutagenicity:**

Ames test:
All colors: Negative (test strains: *S. typhimurium & E. Coli*)
Chromosome aberration test:
Magenta: Negative (test strains: *Human peripheral blood lymphocytes*)
Cyan and Yellow: Not available

**Reproductive Toxicity:**

Not available

**Carcinogenicity:**

Not available

**Others:**

Not available

## 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 ☒ No **Chemical name (wt%):**

**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

**(EC)304/2003:** 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:**

| Chemical Name | Weight % |
|---|---|
| "Ethylene glycol" (107-21-1) (Contained in cyan and magenta ink) | 2 - 6 |
| "Copper Compounds" (Contained only in cyan ink) (as Cu) | 2 - 6 (< 0.35) |

**California Proposition 65:**

| Chemical Name | Weight % |
|---|---|
| None | |

**< 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

<R phrase list>
R11: Highly flammable.
R22: Harmful if swallowed.
R36: Irritating to eyes.
R41: Risk of serious damage to eyes.
R67: Vapours may cause drowsiness and dizziness.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

<Revised information from the previous version>
Section 2, 7, 9 and 11

**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
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EC)304/2003
- 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: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA).
ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
EU ILV: Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.
DFG MAK: MAK(Maximale 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).
FHSA: Federal Hazardous Substances Act (USA).
WHMIS: Workplace Hazardous Materials Information System.
NOHSC: National Occupational Health and Safety Commission.

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