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

**Product Name:** Canon Ink Tank CLI-226C  
**Product Code:** 4547B  
**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 24Hr. EmergencyCHEMTREC# 1-800-424-9300

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**SECTION 2 HAZARDS IDENTIFICATION****EU Classification:**

Not classified as dangerous.

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**Emergency Overview:**

Ink tank containing cyan liquid ink with slight odor.

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**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.

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**Ingestion:**

May cause abdominal pain, diarrhea, dizziness, drowsiness, dullness, headache, nausea and vomiting.

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**Eye:**

May cause minimal irritation. (See SECTION 11)

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**Skin:**

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

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**Chronic Effects:**

Not identified

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**Medical Conditions Generally known to be Aggravated by Exposure:**

Not identified

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**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

**< Ingredient(s) >**

| Chemical Name /<br>Generic Name       | CAS # /<br>EC #          | Weight<br>% | EU Symbol/<br>R-Phrase | USA<br>OSHA PEL  | ACGIH TLV                               | EU OEL          | DFG MAK         |
|---------------------------------------|--------------------------|-------------|------------------------|--|---|-----------------|-----------------|
| Glycerin                              | 56-81-5 /<br>200-289-5   | 5 - 10      | None / None            | (as mist)<br>Total dust<br>TWA = 15 mg/m <sup>3</sup><br>Respirable<br>fraction<br>TWA = 5 mg/m <sup>3</sup> | (as mist)<br>TWA = 10 mg/m <sup>3</sup> | Not established | Not established |
| Ethylene urea                         | 120-93-4 /<br>204-436-4  | 5 - 10      | Xi / R36               | Not established  | Not established                         | Not established | Not established |
| Substituted<br>Phthalocyanine salt #1 | Confidential             | 1 - 5       | Xi / R41               | Not established  | Not established                         | Not established | Not established |
| Substituted<br>Phthalocyanine salt #2 | Confidential             | 1 - 5       | Xi / R41<br>R52/53     | Not established  | Not established                         | Not established | Not established |
| Glycol                                | Confidential             | 5 - 10      | None / None            | Not established  | Not established                         | Not established | Not established |
| Glycol                                | Confidential             | 5 - 10      | None / None            | Not established  | Not established                         | Not established | Not established |
| Water                                 | 7732-18-5 /<br>231-791-2 | 60 - 80     | 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 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:**

CO<sub>2</sub>, 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<sub>2</sub>, NO<sub>x</sub> and SO<sub>x</sub>

**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 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**

**Appearance:** Cyan liquid

**Odor:** Slight odor

**pH:** 7 - 10

**Boiling Point/Range(°C):** Not available

**Melting Point/Range(°C):** Not available

**Decomposition Temperature(°C):** Not available

**Flash Point(°C):** None (Estimate)

**Flammable (Explosive) Limits:** Not available

**Autoignition Temperature(°C):** Not available

**Flammability:** Neither flammable nor combustible.

**Explosive Properties:** None (Estimate)

**Oxidizing Properties:** None (Estimate)

**Vapor Pressure :** Not available

**Vapor Density :** Not available

**Density / Specific Gravity:** 1.0 - 1.1

**Water Solubility :** Miscible

**Fat Solubility :** Not available

**Partition Coefficient (n-Octanol/Water):** Not available

**Percent Volatile (%):** 60 - 80

**Evaporation Rate:** Not available

**Viscosity (mPa s):** 1 - 5

**SECTION 10 STABILITY AND REACTIVITY**

**Stability:**  Stable  Unstable

**Conditions to Avoid:** None

**Materials to Avoid:** Acids, bases, oxidizing materials and reducing agents

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>, NO<sub>x</sub> and SO<sub>x</sub>

**Hazardous Polymerization:**  May Occur  Will Not Occur

**Conditions to Avoid:** None

**SECTION 11 TOXICOLOGICAL INFORMATION****Acute Toxicity:****Inhalation:**

Not available

**Ingestion:**

Not available

**Eye:**

Minimal irritant (rabbit)

OECD Guidelines No. 405 (2002), 2004/73/EC Method B5

**Skin:**

Mild irritant (rabbit)

OECD Guidelines No. 404 (2002), 2004/73/EC Method B4

**Sensitization:**

Non-sensitizer (mouse)

OECD Guidelines No. 429 (2002), 2004/73/EC Method B42

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

**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):** 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 1005/2009:** Not regulated

**(EC) No 689/2008:** 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):**  
 Not required

**SARA Title III §313:**

| Chemical Name                 | Weight %            |
|-------------------------------|---------------------|
| "Copper Compounds"<br>(as Cu) | 5 - 10<br>( < 0.35) |

**California Proposition 65:**

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

< Canada Information >

**WHMIS Controlled Product:** Not applicable (Manufactured article)

< Australia Information >

**Statement of Hazardous Nature:** This product will not be shipped to Australia.

**SECTION 16 OTHER INFORMATION**

<R phrase list>

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.

<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
- 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 (EC) No 1907/2006 Annex XVII (Restrictions), 1999/45/EC
- EU Regulation (EC) No 1005/2009, (EC) No 689/2008, (EC) No 1907/2006, (EC) No 1272/2008
- 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 OEL: Occupational exposure limits at Community level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC and 2009/161/EU
- 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.
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative

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