



## MATERIAL SAFETY DATA SHEET

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MSDS #: IC1564-0101

Product Code: 0979A / F47-1791

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

Product Name:	Canon Ink Tank BCI-8C		
Product Code:	0979A / F47-1791		
Manufacturer:	Canon Inc.,30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Phone # 03-3758-2111		
Supplier:	Canon USA, Inc., One Canon Park, Melville, NY 11747, USA		
Phone # :	1-800-OK-CANON	24 Hr. Emergency CHEMTRAC # 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 <sup>3</sup> Respirable fraction TWA = 5 mg/m <sup>3</sup>	(as mist) TWA = 10 mg/m <sup>3</sup>	Not established	Not established
Thiodiglycol	111-48-8 / 203-874-3	5 - 10	Xi / R36	Not established	Not established	Not established	Not established
Isopropyl alcohol	67-63-0 / 200-661-7	1 - 5	F/ R11 Xi/ R36 R67	TWA = 400 ppm, 980 mg/m <sup>3</sup>	TWA = 200 ppm, 492 mg/m <sup>3</sup> STEL = 400 ppm, 984 mg/m <sup>3</sup>	Not established	200 ppm, 500 mg/m <sup>3</sup>
Copper, [29H,31H-phthalocyaninato(2-)- N29,N30,N31,N32]-, aminosulfonyl sulfo derivs., sodium salts	90295-11-7 / 291-001-7	1 - 5	Xi/ R36	Not established	Not established	Not established	Not established
Ammonia derivative	Confidential	5 - 10	None/ None	Not established	Not established	Not established	Not established
Water	7732-18-5 / 231-791-2	60 - 80	None/ None	Not established	Not established	Not established	Not established



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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.

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## SECTION 3 HAZARDS IDENTIFICATION

### EU Classification:

Not classified as dangerous.

### Emergency Overview:

Ink tank containing cyan liquid ink 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

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## 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<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

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### 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.

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### 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.

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### 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

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<b>Appearance:</b>	Cyan liquid
<b>Odor:</b>	Slight odor
<b>pH:</b>	10 - 11
<b>Boiling Point/Range(°C):</b>	Not available
<b>Melting Point/Range(°C):</b>	Not available
<b>Decomposition Temperature(°C):</b>	Not available
<b>Flash Point(°C):</b>	57.9 (Tag. Closed Cup. Combustion is not sustainable.)
<b>Flammable (Explosive) Limits:</b>	Not available
<b>Autoignition Temperature(°C):</b>	Not available
<b>Flammability:</b>	Classified as "combustible liquid" under OSHA-HCS. Not classified as "flammable" or "combustible" under FHS.A. Not classified as "flammable" under 1999/45/EC.
<b>Explosive Properties:</b>	None
<b>Oxidizing Properties:</b>	None
<b>Vapor Pressure :</b>	Not available
<b>Vapor Density :</b>	Not available
<b>Density / Specific Gravity:</b>	1.0 - 1.1
<b>Water Solubility :</b>	Miscible
<b>Fat Solubility :</b>	Not available
<b>Partition Coefficient (n-Octanol/Water):</b>	Not available
<b>Percent Volatile (%):</b>	60 - 80
<b>Evaporation Rate:</b>	Not available
<b>Viscosity (mPa s):</b>	1 - 5

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### SECTION 10 STABILITY AND REACTIVITY

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<b>Stability:</b>	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
<b>Conditions to Avoid:</b>	None
<b>Materials to Avoid:</b>	Acids, bases, oxidizing materials and reducing agents
<b>Hazardous Decomposition Products:</b>	CO, CO <sub>2</sub> , NO <sub>x</sub> , SO <sub>x</sub> and Ammonia
<b>Hazardous Polymerization:</b>	<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur
<b>Conditions to Avoid:</b>	None

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### SECTION 11 TOXICOLOGICAL INFORMATION

#### Acute Toxicity:

##### Inhalation:

Not available

##### Ingestion:

Not available

##### Eye:

Minimal irritant (rabbit)

OECD Guidelines No.405 (1987), 92/69/EEC Method B5

##### Skin:

Mild irritant (rabbit)

OECD Guidelines No.404 (1992), 92/69/EEC Method B4

#### Sensitization:

Non-sensitizer (guinea pig)

OECD Guidelines No.406 (1992), 92/69/EEC Method B6

#### Mutagenicity:

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

#### 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

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### SECTION 13 DISPOSAL CONSIDERATIONS

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

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### 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

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### 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:**

**76/769/EEC:** Not regulated

**(EC)2037/2000:** Not regulated

**(EC)304/2003:** Not regulated

**Others:** None

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### < 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" (as Cu)	1 - 5 (< 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.

R36: Irritating 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
- 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, 2000/39/EC and 2006/15/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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