

IC1250-010 MSDS #: 0960A/ F47-2761

Product Code:

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

**COMPANY/UNDERTAKING** 

**Product Name:** Canon Ink Cartridge BCI-12 Photo Color

0960A/F47-2761 **Product Code:** 

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

Canon USA, Inc., One Canon Park, Melville, NY 11747, USA Supplier:

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

#### **SECTION 2** COMPOSITION/INFORMATION ON INGREDIENTS

_ 1	Ingredient(s	-/-
	mei caichas	,, _

< Ingredient(s) >	CAS # /	Weight	EII Cumbol/	TICA	ACCHITIN	TOTAL TE T/	DEC MAK
Chemical Name / Generic name	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/m³	(as mist) TWA = 10 mg/m <sup>3</sup>	Not established	Not established
				Respirable fraction TWA = 5 mg/m <sup>3</sup>			
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	2 - 6	F / R11, Xi / R36, R67	TWA = 400 ppm, 980 mg/m <sup>3</sup>	TWA =200ppm, 492 mg/m <sup>3</sup> STEL = 400ppm, 984 mg/m <sup>3</sup>	Not established	200 ppm, 500 mg/m <sup>3</sup>
Poly(oxy-1,2-ethanediyl), .alpha,alpha.'-[1,4-dimethyl-1,4- bis(2-methylpropyl)-2-butyne-1,4- diyl]bis[.omegahydroxy- (Contained only in yellow ink)	9014-85-1 / Not applicable	1 - 3	Xi / R41	Not established	Not established	Not established	Not established
C.I. Direct Yellow 173 (Contained only in yellow ink)	Not registered / 414-410-6	1 - 3	Xi / R41	Not established	Not established	Not established	Not established
Copper compound (Contained only in cyan ink)	Confidential	1 - 3	None / None	Not established	Not established	Not established	Copper and its compounds Inhalable fraction 1.0 mg/m <sup>3</sup>
Ammonia derivative	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
Water	7732-18-5 / 231-791-2	65 - 85	None / None	Not established	Not established	Not established	Not established

Date of Issue: Revised: November 24, 1999 April 16, 2003



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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 three colors ink cartridge. (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:

Neither irritation nor sensitization is expected. (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 FIG	GHTING MEASURES
Fire Fighting Measures:	
Extinguishing Media:	
CO <sub>2</sub> , water, foam or dr	y chemicals
Unsuitable Extinguishing	g Media:
None	
Special Fire Fighting Pr	rocedures:
None	
<b>Unusual Fire and Explos</b>	ion Hazards:
None	
Fire and Explosive Propertie	es (See also Section 9):
<b>Hazardous Combustion</b>	Products:
CO, CO <sub>2</sub> , NOx, and SO	Ox .
Other Properties:	
None	
SECTION 6 ACCIDE	NTAL RELEASE MEASURES
Personal Precautions:	
Avoid contact with skin,	eyes and clothing
Environmental Precautions:	cycs and clothing.
	surface water or ground water.
Method for Cleaning Up:	surface water of ground water.
Wipe off with wet cloth of	or naner
wipe off with wet cloth c	n paper.
CECUTONE TIANDE	
SECTION 7 HANDLE	ING AND STORAGE
Handling:	ING AND STORAGE
Handling: Use with adequate ventil	
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# MATERIAL SAFETY DATA SHEET

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES				
Appearance:	Cyan, magenta and yellow liquid			
Odor:	Slight odor			
pH:	8.2 - 10.4			
Boiling Point/Range( ${}^{\circ}C$ ):	Not available			
Melting Point/Range(°C):	Not available			
<b>Decomposition Temperature</b> ( ${}^{\circ}$ C):	Not available			
Flash Point(°C):	Estimate 56 - 57 (Tag Closed Cup. Combustion is not sustainable.)			
Flammable (Explosive) Limits:	Not available			
Autoignition Temperature (°C):	Estimate 470 - 490 (ASTM-E659)			
Flammability:	Classified as "Combustible liquid" under OSHA-HCS.  Not Classified as "flammable" or "combustible" under FHSA.  Not Classified as "flammable" under 1999/45/EC.			
<b>Explosive Properties:</b>	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			
$\label{partition} \textbf{Partition Coefficient (n-Octanol/Water):}$	Not available			
Percent Volatile (%):	65 - 85			
<b>Evaporation Rate:</b>	Not available			
Viscosity (mPa s):	1.6 - 2.6			
SECTION 10 STABILITY AND REA	ACTIVITY			
Stability:	Stable     Unstable			
Conditions to Avoid:	None			
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents			
<b>Hazardous Decomposition Products:</b>	CO, CO <sub>2</sub> , NOx, SOx and Ammonia			
Hazardous Polymerization:	☐ May Occur  ☑ Will Not Occur			
Conditions to Avoid:	None			

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## MATERIAL SAFETY DATA SHEET

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TOXICOLOGICAL INFORMATION **SECTION 11** 

**Acute Toxicity:** 

**Inhalation:** 

Not available

**Ingestion:** 

Not available

Eye:

Cyan and Magenta: [Data of similar composition ink] Minimal irritant (rabbit)

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

Yellow: Minimal irritant, Maximum Group Mean Score = 4.0 (rabbit)

EPA(FIFRA) Pesticide Assessment Guideline par.81-4 EPA(TSCA) Federal Regulation Subpart E Sec.798.4500

OECD Guidelines No.405 (1992)

92/69/EEC Method B5

Skin:

Cyan and Magenta: [Data of similar composition ink] Non irritant (rabbit)

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

Yellow: Non irritant, Primary Irritation Index = 0.0 (rabbit)

EPA(FIFRA) Pesticide Assessment Guideline par.81-5

EPA(TSCA) Federal Regulation Subpart E Sec. 798.4470

OECD Guidelines No.404 (1992)

92/69/EEC Method B4

Sensitization:

Cyan: [Data of similar composition ink] Non sensitizer (guinea pig)

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

Magenta: [Data of similar composition ink] Non sensitizer (guinea pig)

OECD Guidelines No.406 (1992), 96/54/EC Method B6

Yellow: Non sensitizer, Sensitization rate = 0 % (0/10) (guinea pig)

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

**Mutagenicity:** 

Ames test: Negative (test strains: S.typhimurium)

**Reproductive Toxicity:** 

Not available

**Carcinogenicity:** 

Not available

Others:

Not available

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SECTION 12	ECOLOGICAL INFORMATION			
<b>Mobility:</b>	Not available			
Persistence / Degradability:	Not available			
<b>Bioaccumulation:</b>	Not available			
<b>Ecotoxicity:</b>	Not available			
Other Adverse Effec	Not available Not available			
SECTION 13 I	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			
<b>UN Classification:</b>	None			
<b>UN Packing Group:</b>	None			
Marine Pollutant:	☐ Yes Chemical name (wt%): ☒ No			
<b>Special Precautions</b>	None None			
SECTION 15 H	REGULATORY INFORMATION			
< EU Information >				
Information on the L				
Symbol & Indication: Not required				
R-Phrase: Not required				
S-Phrase: Not required				
Dangerous Component(s):  None				
Special Precauti Not required	ons under 1999/45/EC Annex V:			
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):** 

None

SARA Title III §313:

**Chemical Name** 

Weight %

"Copper Compounds" (Contained only in cyan ink) (as Cu)

1 - 3 (< 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.

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
- 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 Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft.

TWA: Time Weighted Average.

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 Act 1985.

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