

## MATERIAL SAFETY DATA SHEET

MSDS #: \_ Product Code: IC1293-0101 4484A/F47-3181

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

**COMPANY/UNDERTAKING** 

**Product Name:** Canon Ink Tank BCI-3ePM Photo

Product Code: 4484A/F47-3181
Manufacturer: Canon Inc.

30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

**Supplier:** Canon Singapore Pte Ltd

1 HarbourFront Avenue, #04-01, Keppel Bay Tower, Singapore 098632

cspl\_msds@canon.com.sg

Use of the Product: Ink for Ink Jet Printer

## 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/m³ Respirable fraction TWA = 5 mg/m³	(as mist) TWA = 10 mg/m <sup>3</sup>	Not established	Not established
Ethylene glycol	107-21-1 / 203-473-3	2 - 6	Xn / R22	Not established	(aerosol) Ceiling = 100 mg/m <sup>3</sup>	TWA = 20 ppm, 52 mg/m <sup>3</sup> STEL = 40 ppm, 104 mg/m <sup>3</sup>	10 ppm, 26 mg/m <sup>3</sup>
Diethylene glycol	111-46-6 / 203-872-2	2 - 6	Xn / R22	Not established	Not established	Not established	10 ppm, 44 mg/m <sup>3</sup>
Isopropyl alcohol	67-63-0 / 200-661-7	1 - 3	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>
Quinoline derivative	Confidential	1 - 3	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 / 231-79-12	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.

#### SECTION 3 HAZARDS IDENTIFICATION

#### **EU Classification:**

Not classified as dangerous.

#### **Emergency Overview:**

Ink tank containing magenta 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:

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 FIGH	ITING MEASURES					
Fire Fighting Measures:						
Extinguishing Media:						
CO <sub>2</sub> , water, foam or dry chemicals						
Unsuitable Extinguishing Media: None						
Special Fire Fighting Proc None	Special Fire Fighting Procedures: None					
Unusual Fire and Explosion	n Hazards:					
None						
Fire and Explosive Properties	(See also Section 9):					
Hazardous Combustion Products:						
CO, CO <sub>2</sub> and NOx						
Other Properties:						
None						
SECTION 6 ACCIDEN	TAL RELEASE MEASURES					
<b>Personal Precautions:</b>						
Avoid contact with skin, ex	yes and clothing.					
<b>Environmental Precautions:</b>						
	rface water or ground water.					
Method for Cleaning Up:						
Wipe off with wet cloth or	paper.					
SECTION 7 HANDLIN	G AND STORAGE					
Handling:						
Use with adequate ventilat						
Avoid contact with skin, ey						
	t the contaminated area immediately.					
Storage:	Ductout from available					
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, plea	se refer to the instruction of this product.					
SECTION 8 EXPOSUR	RE CONTROLS / PERSONAL PROTECTION					
Exposure Guidelines:	(C. 1. OFCEION 2)					
Not established for this ink.	(See also SECTION 2)					
Engineering Controls: Use adequate ventilation.						
Personal Protection Equipmer						
Respiratory Protection: [						
	Required					
	☑ Required  ☑ Not Required					
	Required					
	☑ Not Required					

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES				
Appearance:	Magenta liquid			
Odor:	Slight odor			
pH:	9.0 - 10.0			
Boiling Point/Range( ${}^{\circ}C$ ):	Not available			
Melting Point/Range( $^{\circ}$ 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.  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 (%):	60 - 80			
<b>Evaporation Rate:</b>	Not available			
Viscosity (mPa s):	1.7 - 2.3			
SECTION 10 STABILITY AND REA	ACTIVITY			
Stability:				
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 and Ammonia			
Hazardous Polymerization:	☐ May Occur ☑ Will Not Occur			
Conditions to Avoid:	None			

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SECTION 11 TOXICOLOGICAL INFORMATION

**Acute Toxicity:** 

**Inhalation:** 

Not available

**Ingestion:** 

[Data of similar composition ink] Estimated  $LD_{50} > 2500$  mg/kg (rat)

OECD Guidelines No.423 (1996)

96/54/EC Method B1 tris

Eye:

[Data of similar composition ink] Minimal irritant (rabbit)

OECD Guidelines No.405 (1987)

92/69/EEC Method B5

Skin:

[Data of similar composition ink] Non irritant (rabbit)

OECD Guidelines No.404 (1992)

92/69/EEC Method B4

**Sensitization:** 

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

OECD Guidelines No.406 (1992)

96/54/EC Method B6

Mutagenicity:

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

Reproductive Toxicity:

Not available

Carcinogenicity:

Not available

Others:

Not available

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SECTION 12 E	COLOGICAL INFORMATION				
Mobility:	Not available				
Persistence / Degradability:	Not available				
Bioaccumulation:	Not available				
Ecotoxicity:	Not available				
Other Adverse Effect	Not available				
	ISPOSAL CONSIDERATION				
Method of Disposal:					
Disposal should b	be subject to federal, state and local laws.				
SECTION 14 T	RANSPORT INFORMATION				
UN #:	None				
UN Shipping Name:	None				
UN Classification:	None				
UN Packing Group:	None				
Marine Pollutant:	Yes Chemical name (wt%):				
	⊠No				
Special Precautions:	None				
SECTION 15 REGULATORY INFORMATION					
< EU Information >					
Information on the Label:					
Symbol & Indicat	ion: Not required				
R-Phrase:					
Not required					
S-Phrase: Not required					
None None	onem(s):				
Special Precaution	ons 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):** 

None

SARA Title III §313:

Chemical Name Weight %

"Ethylene glycol" (107-21-1) 2 - 6

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.

R67: Vapours may cause drowsiness or 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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