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MATERIAL SAFETY DATA SHEET

MSDS #: IC1293-0101 Product Code: 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 **Company Name:** Canon Europa N.V.

Bovenkerkerweg 59-61, 1185 XB, Amstelveen, The Netherland Address:

Use of the Product: Ink for Ink Jet Printer

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

< Ingredient(s) >
Chamical Name /

<pre>< Ingredient(s) > Chemical Name / Generic name</pre>	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 ³	Not established	Not established
Ethylene glycol	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
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	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

Date of Issue: Revised: June 6, 2000 July 22, 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:

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 FIG	GHTING MEASURES			
Fire Fighting Measures:				
Extinguishing Media:				
CO ₂ , water, foam or de	ry chemicals			
Unsuitable Extinguishing	g Media:			
None				
Special Fire Fighting Pr None	ocedures:			
Unusual Fire and Explos	ion Hazards:			
None				
Fire and Explosive Propertie	es (See also Section 9):			
Hazardous Combustion	Products:			
CO, CO ₂ and NOx				
Other Properties:				
None				
SECTION 6 ACCIDE	NTAL RELEASE MEASURES			
	NTAL RELEASE MEASURES			
Personal Precautions:				
Avoid contact with skin,	eyes and crotning.			
Environmental Precautions:				
	surface water or ground water.			
Method for Cleaning Up:				
Wipe off with wet cloth o	r paper.			
SECTION 7 HANDLI	ING AND STORAGE			
Handling:				
Use with adequate ventile	ation.			
Avoid contact with skin,				
In case of contact, wash	out the contaminated area immediately.			
Storage:				
	ace. Protect from sunlight.			
Keep away from heat and flame.				
Keep out of the reach of o	children.			
Specific Uses:				
Ink for Ink Jet Printer.				
For more information, pie	ease refer to the instruction of this product.			
SECTION 8 EXPOSU	URE CONTROLS / PERSONAL PROTECTION			
Exposure Guidelines:				
Not established for this in	k. (See also SECTION 2)			
Engineering Controls:				
Use adequate ventilation				
Personal Protection Equipm	ent(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:	Magenta liquid				
Odor:	Slight odor				
pH:	9.0 - 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. Not classified as "flammable" or "combustible" under FHSA. 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 (%):	60 - 80				
Evaporation Rate:	Not available				
Viscosity (mPa s):	1.7 - 2.3				
SECTION 10 STABILITY AND REACTIVITY					
Stability:					
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 ☑ Will Not Occur				
Conditions to Avoid:	None				

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

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	ECOLOGICAL INFORMATION
Mobility:	Not available
Persistence / Degradability:	Not available
Bioaccumulation:	Not available
Ecotoxicity:	Not available
Other Adverse Effec	Not available Not available
	DISPOSAL CONSIDERATION
Method of Disposal: Disposal should	be subject to federal, state and local laws.
SECTION 14	FRANSPORT 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 >	ALGOLATORI IN ORMATION
Information on the I	abel:
Symbol & Indica	Mot required
R-Phrase:	
Not required	
S-Phrase: Not required	
Dangerous Com None	ponent(s):
Special Precauti	ons under 1999/45/EC Annex V:
Not required	
Specific Provisions in	n 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.





MATERIAL SAFETY DATA SHEET

MSDS #: IC1293-0101

Product Code: 4484A/F47-3181

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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