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MATERIAL SAFETY DATA SHEET

MSDS #: IC1289-0101 Product Code: 4480A / F47-3141

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon Ink Tank BCI-3eC

Product Code: 4480A / F47-3141
Company Name: Canon Europa N.V.

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

Use of the Product: Ink for Ink Jet Printer

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

< Ingredient	S) >
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CAS # / EC #	Weight	EU Symbol/ R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
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
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
111-46-6 / 203-872-2	2 - 6	Xn / R22	Not established	Not established	Not established	10 ppm, 44 mg/m ³
90295-11-7 / 291-001-7	2 - 6	Xi / R36	Not established	Not established	Not established	Copper and its compounds Inhalable fraction 1.0 mg/m ³
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
Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
7732-18-5 / 231-79-12	60 - 80	None / None	Not established	Not established	Not established	Not established
	56-81-5 / 200-289-5 107-21-1 / 203-473-3 111-46-6 / 203-872-2 90295-11-7 / 291-001-7 Confidential	56-81-5 / 200-289-5	EC # % R-Phrase 56-81-5 / 200-289-5 5 - 10 None / None 107-21-1 / 203-473-3 2 - 6 Xn / R22 111-46-6 / 203-872-2 2 - 6 Xn / R22 90295-11-7 / 291-001-7 2 - 6 Xi / R36 67-63-0 / 200-661-7 1 - 3 F / R11 Xi / R36 R67 Confidential 5 - 10 None / None 7732-18-5 / 60 - 80 None / None	EC # % R-Phrase OSHA PEL 56-81-5 / 200-289-5 5 - 10 None / None (as mist) Total dust TWA = 15 mg/m³ Respirable fraction TWA = 5 mg/m³ 107-21-1 / 203-473-3 2 - 6 Xn / R22 Not established 111-46-6 / 203-872-2 2 - 6 Xn / R22 Not established 90295-11-7 / 291-001-7 2 - 6 Xi / R36 Not established 67-63-0 / 200-661-7 1 - 3 F / R11 Xi / R36 R67 TWA = 400 ppm, 980 mg/m³ Confidential 5 - 10 None / None Not established 7732-18-5 / 60 - 80 None / None Not established	EC # % R-Phrase OSHA PEL 56-81-5 / 200-289-5 5 - 10 None / None (as mist) Total dust TWA = 15 mg/m³ Respirable fraction TWA = 5 mg/m³ TWA = 10 mg/m³ 107-21-1 / 203-473-3 2 - 6 Xn / R22 Not established (aerosol) Ceiling = 100 mg/m³ 111-46-6 / 203-872-2 2 - 6 Xn / R22 Not established Not established 90295-11-7 / 291-001-7 2 - 6 Xi / R36 Not established Not established 67-63-0 / 200-661-7 1 - 3 F / R11 Xi / R36 R67 TWA = 400 ppm, 980 mg/m³ STEL = 400 ppm, 984 mg/m³ STEL = 400 ppm, 984 mg/m³ Confidential 5 - 10 None / None Not established Not established 7732-18-5 / 60 - 80 None / None Not established Not established	Sc Sc Sc Sc Sc Sc Sc Sc

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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 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

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 C	ry chemicals		
Unsuitable Extinguishin	g Media:		
None			
Special Fire Fighting P None	cocedures:		
Unusual Fire and Explo	sion Hazards:		
None			
Fire and Explosive Properti	es (See also Section 9):		
Hazardous Combustion	Products:		
CO, CO ₂ and NOx			
Other Properties:			
None			
SECTION 6 ACCIDE	ENTAL RELEASE MEASURES		
	IVIAL RELEASE MEASURES		
Personal Precautions:	1.1.4.		
Avoid contact with skin			
Environmental Precautions			
	surface water or ground water.		
Method for Cleaning Up:			
Wipe off with wet cloth	or paper.		
SECTION 7 HANDL	ING AND STORAGE		
Handling:			
Use with adequate venti	ation.		
Avoid contact with skin			
In case of contact, wash	out the contaminated area immediately.		
Storage:			
Keep in a cool and dry p	lace. 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, p	ease refer to the instruction of this product.		
SECTION 8 EXPOS	URE CONTROLS / PERSONAL PROTECTION		
Exposure Guidelines: Not established for this is	nk. (See also SECTION 2)		
Engineering Controls:			
Use adequate ventilation	1.		
Personal Protection Equipn	nent(s):		
Respiratory Protection:	Required		
	☑ Not Required		
Eye/Face Protection:	Required		
	Not Required		
Skin Protection:	Required		
	☑ Not Required		

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Product Code: 4480A / F47-3141

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES		
Appearance:	Cyan liquid	
Odor:	Slight odor	
pH:	9.4 - 10.4	
Boiling Point/Range(°C):	Not available	
Melting Point/Range(°C):	Not available	
Decomposition Temperature(°C):	Not available	
Flash Point(°C):	55.0 (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):	2.0 - 2.6	
SECTION 10 STABILITY AND RE.	ACTIVITY	
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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SECTION 11

TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:

Not available

Ingestion:

Estimated LD₅₀ > 2500 mg/kg, 0/6 mortalities at 2000 mg/kg (rat)

OECD Guidelines No.423 (1996)

96/54/EC Method B1 tris

Eye:

Minimal irritant, Maximum Group Mean Score = 6.0, Class 3 (rabbit)

OECD Guidelines No.405 (1987)

92/69/EEC Method B5

Skin:

Mild irritant, Primary Irritation Index = 1.8 (rabbit)

OECD Guidelines No.404 (1992)

92/69/EEC Method B4

Sensitization:

Non sensitizer, Sensitization rate = 0 % (0/10) (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 Effe	Not available			
	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			
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 I				
Symbol & Indica R-Phrase:	Not required			
Not required				
S-Phrase: Not required				
Dangerous Com None	ponent(s):			
Special Precauti Not required	ions under 1999/45/EC Annex V:			
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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MSDS #: IC1289-0101

Product Code:

< 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 NameWeight %"Ethylene glycol" (107-21-1)2 - 6

"Copper Compounds" 2 - 6 (as Cu) (< 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. 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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