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MATERIAL SAFETY DATA SHEET

MSDS #: IC1212-0101
Product Code: 0879A / F45-0014

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon BJ Cartridge BC-01

Product Code: 0879A / F45-0014
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) > 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	2 - 6	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		
Thiodiglycol	111-48-8 / 203-874-3	2 - 6	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 ³	TWA = 400 ppm, 983 mg/m ³ STEL = 500 ppm, 1230 mg/m ³	Not established	200 ppm, 500 mg/m ³		
Ammonia derivative	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established		
Water	7732-18-5 / 231-79-12	65 - 85	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 cartridge containing black 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:

No irritation is expected. (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 FI	GHTING MEASURES			
Fire Fighting Measures:				
Extinguishing Media:				
CO ₂ , water, foam or d	ry chemicals			
Unsuitable Extinguishin None	ng Media:			
Special Fire Fighting Pr None	ocedures:			
Unusual Fire and Explo	sion Hazards:			
Fire and Explosive Properti	es (See also Section 9):			
Hazardous Combustion	Products:			
CO, CO ₂ , NOx and SO	Ox			
Other Properties: None				
SECTION (ACCIDI	ENTEAT DELEACE MEACUDEC			
	ENTAL RELEASE MEASURES			
Personal Precautions:	vos and alathing			
Avoid contact with skin, e				
Environmental Precautions	: urface water or ground water.			
	urrace 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 ventilat				
Avoid contact with skin, e				
In case of contact, wash ou	at the contaminated area immediately.			
Storage:				
Keep in a cool and dry pla	•			
	Keep away from heat and flame.			
Keep out of the reach of cl	mildren.			
Specific Uses:				
Ink for Ink Jet Printer.				
For more information, plea	ase refer to the instruction of this product.			
SECTION 8 EXPOSU Exposure Guidelines: Not established for this in	JRE CONTROLS / PERSONAL PROTECTION k. (See also SECTION 2)			
Engineering Controls:				
Use adequate ventilation.				
Personal Protection Equipm				
Respiratory Protection:	☐ Required ☑ Not Required			
Eye/Face Protection:	Required			
	•			
Skin Protection:	Not Required ☐ Required			
Eye/Face Protection:	□ Required			

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SECTION 9 PHYSICAL AND CH	IEMICAL PROPERTIES			
Appearance:	Black liquid			
Odor:	Slight odor			
pH:	6.5 - 8.0			
Boiling Point/Range(°C):	Not available			
Melting Point/Range(°C):	Not available			
Decomposition Temperature (${}^{\circ}$ C):	Not available			
Flash Point(°C):	48.5 (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 (%):	65 - 85			
Evaporation Rate:	Not available			
Viscosity (mPa s):	1.5 - 2.1			
SECTION 10 STABILITY AND RI	EACTIVITY			
Stability:				
Conditions to Avoid:	None			
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents			
Hazardous Decomposition Products:	CO, CO ₂ , NOx, Ammonia and SOx			
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:

LD50 > 5000 mg/kg, 0/10 mortalities at 5000 mg/kg (rat)

OECD Guidelines No.401 (1981)

84/449/EEC Method B1 FHSA 16 CFR Sec.1500.3

Eye:

Non irritant (rabbit)

FHSA 16 CFR Sec.1500.42

Skin:

Acute dermal irritation:

Mild irritant, Primary Irritation Index = 0.3 (rabbit)

16 CFR Sec.1500.41

Acute dermal toxicity:

LD50 > 2000 mg/kg, 0/10 mortalities at 2000 mg/kg (rat)

OECD Guidelines No.402 (1981) & 84/449/EEC Method B3 & FHSA 16 CFR Sec.1500.40

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)

Chromosome aberration test: Negative

(test strains: Human peripheral blood lymphocytes &

A Chinese hamster fibroblast cell line isolated from the lung)

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 Eff	fects: Not available						
SECTION 13	DISPOSAL CONSIDERATION						
Method of Disposa Disposal should	al: be subject to federal, state and local laws.						
SECTION 14	TRANSPORT INFORMATION						
UN #:	None						
UN Shipping Nam	e: None						
UN Classification:	None						
UN Packing Group	p: None						
Marine Pollutant:	☐ Yes Chemical name (wt%): ☒ No						
Special Precaution	S: None						
SECTION 15	REGULATORY INFORMATION						
< EU Information Information on tl							
	ication: Not required						
R-Phrase:							
Not required							
S-Phrase: Not required	I						
None None	mponent(s):						
-	tions under 1999/45/EC Annex V:						
Not required							
Specific Provision	s in Relation to Protection of Man or the Environment:						
76/769/EEC:	Not regulated						
(EC)2037/2000	Not regulated						
(EEC)2455/92	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 %

None

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 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, (EEC)2455/92
- 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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