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MATERIAL SAFETY DATA SHEET

MSDS #:

IC1309-0101 Product Code: 1009A / F47-0081

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE **SECTION 1**

COMPANY/UNDERTAKING

Product Name: Canon Ink Cartridge BJI-643BK

1009A / F47-0081 **Product Code: Company Name:** Canon Europa N.V.

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

Use of the Product: Ink for Ink Jet Printer

Ose of the Froduct: Ink for Ink Jet Printer							
SECTION 2	COMPOSI	TION/I	NFORMATIO	ON ON INGRE	DIENTS		
< Ingredient(s) > Chemical Name / Generic name	CAS#/ EC#	Weight	EU Symbol/ R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
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
Glycol	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
Triol	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.

Eve:

Practically non-irritation is expected. (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.

Eve:

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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	TING MEASURES					
Fire Fighting Measures: Extinguishing Media:						
CO ₂ , water, foam or dry ch	nemicals					
Unsuitable Extinguishing M						
None						
Special Fire Fighting Procedures: None						
Unusual Fire and Explosion Hazards: None						
Fire and Explosive Properties (S	See also Section 9):					
Hazardous Combustion Products: CO and CO ₂						
Other Properties:						
None						
CECTION (ACCIDENT	NAY DEVEACE MEACURES					
	AL RELEASE MEASURES					
Personal Precautions: Avoid contact with skin, eyes	and clothing.					
Environmental Precautions:						
Do not release to sewer, surfa	ce water or ground water.					
Method for Cleaning Up:						
Wipe off with wet cloth or pap	oer.					
SECTION 7 HANDLING	G AND STORAGE					
Handling:						
Use with adequate ventilation.						
Avoid contact with skin, eyes						
-	e contaminated area immediately.					
Storage: Keep in a cool and dry place.	Protect from sunlight					
Keep away from heat and flam	ne.					
Keep out of the reach of children.						
Specific Uses:						
Ink for Ink Jet Printer.						
For more information, please refer to the instruction of this product.						
SECTION 8 EXPOSURE	C CONTROLS / PERSONAL PROTECTION					
Exposure Guidelines:						
Not established for this ink. (S	See also SECTION 2)					
Engineering Controls: Use adequate ventilation.						
Personal Protection Equipment	t(s):					
Respiratory Protection:	Required Not Required					
Eye/Face Protection:	Required Not Required					
_	Required Not Required					

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MSDS #: IC1309-0101 Product Code: 1009A / F47-0081

SECTION 9 PHYSICAL AND C	CHEMICAL PROPERTIES		
Appearance:	Black liquid		
Odor:	Slight odor		
pH:	6.5 - 7.5		
Boiling Point/Range(°C):	Not available		
Melting Point/Range(°C):	Not available		
Decomposition Temperature (°C):	Not available		
Flash Point(°C):	82.0 (Cleveland open cup. Estimate : Combustion is not sustainable.)		
Flammable (Explosive) Limits:	Not available		
Autoignition Temperature ($^{\circ}$ 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):	1.7 - 2.3		
SECTION 10 STABILITY AND I	REACTIVITY		
Stability:			
Conditions to Avoid:	None		
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents		
Hazardous Decomposition Products:	CO and CO ₂		
Hazardous Polymerization:	☐ May Occur ☑ Will Not Occur		
Conditions to Avoid:	None		

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IC1309-0101

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:

Estimate: LC50 > 5.22mg/l air (rat) OECD Guidelines No.403 (1981)

Ingestion:

Not available

Eye:

Practically non-irritant, Maximum Group Mean Score = 2.0, Class 2 (rabbit)

OECD Guidelines No.405 (2002)

92/69/EEC Method B5

Skin:

Non-irritant, Primary Irritation Index = 0.0 (rabbit)

OECD Guidelines No.404 (2002)

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

Date of Issue: Revised: June 16, 1993 October 10, 2003

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MSDS #: IC1309-0101
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SECTION 12 E	COLOGICAL INFORMATION					
Mobility:	Not available					
Persistence / Degradability:	Not available					
Bioaccumulation:	Not available					
Ecotoxicity:	Not available					
Other Adverse Effec	ets: Not available					
SECTION 13 D	DISPOSAL CONSIDERATION					
Method of Disposal: Disposal should be subject to federal, state and local laws.						
SECTION 14 T	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 R < EU Information >	REGULATORY INFORMATION					
Information on the Label:						
Symbol & Indica	ation: Not required					
R-Phrase: Not required						
S-Phrase: Not required						
Dangerous Comp None	ponent(s):					
Special Precaution Not required	ons 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:						
(EC)304/2003:	Not regulated					
Others:	None					

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MSDS #: IC1309-0101 Product Code: 1009A / F47-0081

< 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 and dizziness.

<Revised information from the previous version>

Entirely revised.

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MSDS #: IC1309-0101

Product Code: 1009A / F47-0081

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 Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft.

TWA: Time Weighted Average. STEL: Short Term Exposure Limit.

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.

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