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MATERIAL SAFETY DATA SHEET

MSDS #: IC1274-0101 Product Code: 4705A / F47-3221

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon Ink Tank BCI-6BK

Product Code: 4705A / F47-3221 **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	5 - 10	None / None	(as mist) Total dust TWA = 15 mg/m ³ Respirable fraction TWA = 5 mg/m ³	(as mist) TWA = 10 mg/m ³	Not established	Not established
Ethylene glycol	107-21-1 / 203-473-3	5 - 10	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
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
Ammonia derivative	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
Water	7732-18-5 / 231-791-2	55 - 75	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 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:

May cause minimal irritation. (See SECTION 11)

Skin:

May cause no irritation and mild 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 FIF	RE FIGHTING MEASURES				
Fire Fighting Measure	es:				
Extinguishing Media:					
CO ₂ , water, foar	m or dry chemicals				
Unsuitable Extingu	nishing Media:				
None					
Special Fire Fighti	ing Procedures:				
None					
Unusual Fire and E	Explosion Hazards:				
None					
Fire and Explosive Pro	operties (See also Section 9):				
Hazardous Combu					
CO, CO ₂ and NO	Ox				
Other Properties:					
None					
SECTION 6 AC	CCIDENTAL RELEASE MEASURES				
Personal Precautions:					
-	skin, eyes and clothing.				
Environmental Precau					
	ewer, surface water or ground water.				
Method for Cleaning U					
Wipe off with wet o	:loth or paper.				
SECTION 7 HA	ANDLING AND STORAGE				
Handling:					
Use with adequate	ventilation.				
	skin, eyes and clothing.				
In case of contact, v	wash out the contaminated area immediately.				
Storage:					
-	dry place. Protect from sunlight.				
	Keep away from heat and flame.				
Keep out of the read	ch of children.				
Specific Uses:					
Ink for Ink Jet Printe					
roi more imormani	on, please refer to the instruction of this product.				
	POSURE CONTROLS / PERSONAL PROTECTION				
Exposure Guidelines:					
	this ink. (See also SECTION 2)				
Engineering Controls					
Use adequate venti					
Personal Protection Eq					
Respiratory Prote	ction: Required				
Evo/Eooo Dwo4o -4*-	☑ Not Required				
Eye/Face Protection	- redente				
Clair Don't 4	☑ Not Required				
Skin Protection:	Required Not Required				
	☑ Not Required				

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SECTION 9 PHYSICAL AND CHE	EMICAL PROPERTIES
Appearance:	Black liquid
Odor:	Slight odor
pH:	7-9
Boiling Point/Range(${}^{\circ}C$):	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 ($^{\circ}$ 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
$\label{partition} \textbf{Partition Coefficient (n-Octanol/Water):}$	Not available
Percent Volatile (%):	55 - 75
Evaporation Rate:	Not available
Viscosity (mPa s):	2-3
SECTION 10 STABILITY AND REA	ACTIVITY
Stability:	⊠ Stable
Stability.	Unstable
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:Not available

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] Mild 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						
Degraduomi,.							
210000000000000000000000000000000000000							
Ecotoxicity:	Not available						
Other Adverse Effe	Not available						
SECTION 13	DISPOSAL CONSIDERATION						
Method of Disposal Disposal should	l: d be subject to federal, state and local laws.						
SECTION 14	TRANSPORT INFORMATION						
UN #:	None						
UN Shipping Name	None None						
UN Classification:	None						
UN Packing Group	: None						
Marine Pollutant:	☐ Yes Chemical name (wt%): ☑ No						
Special Precaution	—						
SECTION 15 < EU Information > Information on the Symbol & Indio R-Phrase:	e Label:						
Not required	1						
S-Phrase: Not required	1						
Dangerous Con None	nponent(s):						
Special Precau Not required	tions under 1999/45/EC Annex V:						
Specific Provision	s in Relation to Protection of Man or the Environment:						
76/769/EEC:	Not regulated						
(EC)2037/2000	0: 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) 5 - 10

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 and dizziness.

<Revised information from the previous version>

Section 2, 3, 9, 11 and 12



MATERIAL SAFETY DATA SHEET

MSDS #: IC1274-0101 Product Code: 4705A / F47-3221

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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