

Manufacturer:

MATERIAL SAFETY DATA SHEET

MSDS #: IC1213-0101 Product Code: 0881A / F45-0241

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon BJ Cartridge BC-02

Canon Inc.

Product Code: 0881A / F45-0241

30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

Supplier: Canon Singapore Pte Ltd

1 HarbourFront Avenue, #04-01, Keppel Bay Tower, Singapore 098632

cspl_msds@canon.com.sg

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 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	ocedures:				
None					
Unusual Fire and Explos	ion Hazards:				
None					
Fire and Explosive Propertie	es (See also Section 9):				
Hazardous Combustion	Products:				
CO, CO ₂ , NOx and SO)x				
Other Properties:					
None					
SECTION 6 ACCIDE	NTAL RELEASE MEASURES				
	ATAL RELEASE MEASURES				
Personal Precautions:	anna and alaskin a				
Avoid contact with skin,	eyes and crotning.				
Environmental Precautions:	numbers western an amount division				
-	surface water or ground water.				
Method for Cleaning Up:					
Wipe off with wet cloth o	r paper.				
SECTION 7 HANDLI	NG AND STORAGE				
Handling:					
Use with adequate ventile	ation.				
Avoid contact with skin,					
In case of contact, wash o	In case of contact, wash out the contaminated area immediately.				
Storage:					
Keep in a cool and dry place. Protect from sunlight.					
Keep away from heat and flame. Keep out of the reach of children.					
	mildren.				
Specific Uses:					
Ink for Ink Jet Printer. For more information, please refer to the instruction of this product.					
SECTION 8 EXPOSU	JRE CONTROLS / PERSONAL PROTECTION				
Exposure Guidelines:					
Not established for this in	k. (See also SECTION 2)				
Engineering Controls:					
Use adequate ventilation					
Personal Protection Equipment(s):					
Respiratory Protection:					
T	Not Required				
Eye/Face Protection:	Required				
	Not Required				
Skin Protection:	Required				
	Not Required				

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SECTION 9 PHYSICAL AND CHE	EMICAL 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(°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 REA	ACTIVITY		
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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	ECOLOGICAL INFORMATION					
Mobility:	Not available					
Persistence / Degradability:	Not available					
Bioaccumulation:	Not available					
Ecotoxicity:	Not available					
Other Adverse Effe	Not available Not available					
SECTION 13	DISPOSAL CONSIDERATIONS					
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 Precaution	s: None					
SECTION 15 REGULATORY INFORMATION < EU Information > Information on the Label:						
Symbol & Indic	ation: Not required					
R-Phrase: Not required						
S-Phrase: Not required						
Dangerous Component(s): None						
Special Precaut Not required	tions under 1999/45/EC Annex V:					
Specific Provisions i	in 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 I	lnform	ation >
Informa	ation o	n the L

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 References:

- 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, 2000/39/EC and 2006/15/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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