

MATERIAL SAFETY DATA SHEET

MSDS #: _____ Product Code: 09

IC1281-0101 0907A / F45-1321

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon Color BJ Cartridge BC-11e

Product Code: 0907A / F45-1321

Manufacturer: Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph# 03-3758-2111

Supplier: Canon USA, Inc, One Canon Park, Melville, NY 11747, USA

Phone #: 1-800-OK-CANON 24 Hr. Emergency CHEMTREC # 1-800-424-9300

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

< I	Ingredient(s) >

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/m ³ Respirable fraction TWA = 5 mg/m ³	(as mist) TWA = 10 mg/m ³	Not established	Not established
111-48-8 / 203-874-3	5 - 10	Xi / R36	Not established	Not established	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
67-63-0 / 200-661-7	2 - 6	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	2 - 6	None / None	Not established	Not established	Not established	Copper and its compounds Inhalable fraction 1.0 mg/m ³
Not registered / 413-180-4	1 - 3	Xi / R41	Not established	Not established	Not established	Not established
Not registered / 414-410-6	1 - 3	Xi / R41	Not established	Not established	Not established	Not established
9014-85-1 / Not applicable	1 - 3	Xi / R41	Not established	Not established	Not established	Not established
Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
7732-18-5 / 231-79-12	65 - 85	None / None	Not established	Not established	Not established	Not established
	56-81-5 / 200-289-5 111-48-8 / 203-874-3 107-21-1 / 203-473-3 67-63-0 / 200-661-7 Confidential Not registered / 413-180-4 Not registered / 414-410-6 9014-85-1 / Not applicable Confidential	EC # % 56-81-5 / 200-289-5 5 - 10 111-48-8 / 203-874-3 5 - 10 107-21-1 / 203-473-3 2 - 6 67-63-0 / 200-661-7 2 - 6 Confidential 2 - 6 Not registered / 413-180-4 1 - 3 Not registered / 414-410-6 1 - 3 Confidential 5 - 10	EC # % R-Phrase 56-81-5 / 200-289-5 5 - 10 None / None 111-48-8 / 203-874-3 5 - 10 Xi / R36 107-21-1 / 203-473-3 2 - 6 Xn / R22 67-63-0 / 200-661-7 2 - 6 F / R11 Xi / R36 R67 Confidential 2 - 6 None / None Not registered / 413-180-4 1 - 3 Xi / R41 Not registered / 414-410-6 1 - 3 Xi / R41 Yot applicable 1 - 3 Xi / R41 Not applicable 1 - 3 None / None Not applicable 5 - 10 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 Respirable fraction TWA = 5 mg/m³ 111-48-8 / 203-874-3 5 - 10 Xi / R36 Not established 67-63-0 / 203-473-3 2 - 6 Xn / R22 Not established 67-63-0 / 200-661-7 2 - 6 F / R11 Xi / R36 R67 TWA = 400 ppm, 980 mg/m³ Confidential 2 - 6 None / None Not established Not registered / 413-180-4 1 - 3 Xi / R41 Not established Not applicable 1 - 3 Xi / R41 Not established Confidential 5 - 10 None / None Not established Not applicable 5 - 10 None / None Not established	Sc	S6-81-5 / 200-289-5





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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:

A set of four colors ink cartridges. (Black, Cyan, Magenta and Yellow)

All the ink is liquid mixture 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:

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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SECTION 5 FIRE FIG	CHTING MEASURES			
Fire Fighting Measures:				
Extinguishing Media:				
CO ₂ , water, foam or di	y chemicals			
Unsuitable Extinguishing	g Media:			
None				
Special Fire Fighting Pr	ocedures:			
None				
Unusual Fire and Explos	ion Hazards:			
None				
Fire and Explosive Propertie				
Hazardous Combustion				
CO, CO_2 , NOx and SO	Ox			
Other Properties:				
None				
SECTION 6 ACCIDE	NTAL RELEASE MEASURES			
Personal Precautions:				
Avoid contact with skin,	eves and clothing.			
Environmental Precautions:	.,,			
	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 ventil				
	Avoid contact with skin, eyes and clothing. In case of contact, wash out the contaminated area immediately.			
-	di the Containmated area miniediatery.			
Storage:	Destroy from available			
Keep in a cool and dry place. 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, please refer to the instruction of this product.				
SECTION 8 EXPOSU	TRE CONTROLS / PERSONAL PROTECTION			
	RE CONTROLS / LERSONAL LROTECTION			
Exposure Guidelines: Not established for this in	k (See also SECTION 2)			
Engineering Controls:	k. (See also SEe HOW2)			
Use adequate ventilation				
Personal Protection Equipm				
Respiratory Protection:				
Respiratory 1 rotection.	Not Required Not Required			
Eye/Face Protection:	•			
Ly of Luce I Totte tion.	☐ Required ☐ Not Required			
Skin Protection:	Required			
Dam I I Ottetion.				
	Not Required			

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SECTION 9 PHYSICAL AND CHE	EMICAL PROPERTIES	
Appearance:	Black, cyan, magenta and yellow liquid	
Odor:	Slight odor	
pH:	8.2 - 10.5	
Boiling Point/Range(°C):	Not available	
Melting Point/Range(°C):	Not available	
Decomposition Temperature (°C):	Not available	
Flash Point(°C):	Black: 49.0, Color: Estimate 55 - 57 (Tag Closed Cup. Combustion is not sustainable.)	
Flammable (Explosive) Limits:	Not available	
$\label{eq:Autoignition Temperature (°C):} Autoignition Temperature (°C):$	Black : Estimate 510 - 520 Color : Estimate 470 - 490 (ASTM-E659)	
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 (%):	65 - 85	
Evaporation Rate:	Not available	
Viscosity (mPa s):	1.5 - 2.6	
SECTION 10 STABILITY AND REA	ACTIVITY	
Stability:	Stable Unstable	
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:

Not available

Eye:

Black: Minimal irritant, Maximum Group Mean Score = 2.7, Class 3 (rabbit) Cyan: Minimal irritant, Maximum Group Mean Score = 5.3, Class 3 (rabbit)

Magenta: Minimal irritant, Maximum Group Mean Score = 3.3, Class 3 (rabbit)

OECD Guidelines No.405 (1987) & 92/69/EEC Method B5

Yellow: Minimal irritant, Maximum Group Mean Score = 4.0 (rabbit)

EPA(FIFRA) Pesticide Assessment Guideline par.81-4

EPA(TSCA) Federal Regulation Subpart E Sec.798.4500

Skin:

Black, Cyan and Magenta: Non irritant, Primary Irritation Index = 0.0 (rabbit)

OECD Guidelines No.404 (1992) & 92/69/EEC Method B4

Yellow: Non irritant, Primary Irritation Index = 0.0 (rabbit)

EPA(FIFRA) Pesticide Assessment Guideline par.81-5

EPA(TSCA) Federal Regulation Subpart E Sec.798.4470

Sensitization:

Black and Magenta: Non sensitizer, Sensitization rate = 0 % (0/10) (guinea pig)

OECD Guidelines No.406 (1992)

96/54/EC Method B6

Cyan and Yellow: Non sensitizer, Sensitization rate = 0 % (0/10) (guinea pig)

OECD Guidelines No.406 (1992)

92/69/EEC Method B6

Mutagenicity:

Ames test:

All colors: Negative (test strains: S.typhimurium)

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 Effec	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	DECUI ATODY INCODMATION		
<pre>< EU Information ></pre>	REGULATORY INFORMATION		
Information on the L	abel:		
Symbol & Indica	tion: Not required		
R-Phrase:			
Not required			
S-Phrase: Not required			
Dangerous Component(s):			
None			
Special Precauti	ons under 1999/45/EC Annex V:		
Not required			
Specific Provisions 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 Information >

Information on	the Lahel	under FHSA:
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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) (Contained only in black ink) 2 - 6 "Copper Compounds" (Contained only in cyan ink) 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

- <SECTION 2 Ingredient(s) / Substance name(s)>
- "C. I. Direct Violet 107
- "A mixture of: sodium 5-[8-[4-[4-[4-[7-(3,5-dicarboxylatophenylazo)-8-hydroxy-3,6-disulfonatonaphthalen-1-ylamino]-6-hydroxy
- -1,3,5-triazin-2-yl]-2,5-dimethylpiperazin-1-yl]-6-hydroxy-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfonatonaphthalen-2-ylazo]-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfonatonaphthalen-2-ylazo]-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfonatonaphthalen-2-ylazo]-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfonatonaphthalen-2-ylazo]-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfonatonaphthalen-2-ylazo]-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfonatonaphthalen-2-ylazo]-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfonatonaphthalen-2-ylazo]-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfonatonaphthalen-2-ylazo]-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfonatonaphthalen-2-ylazo]-1,3,5-triazin-2-ylazo]-1,3,5-triazin-2-ylazo]-1,3,5-triazin-2-ylazo]-1,3,5-triazin-2-ylazo]-1,3,5-triazin-2-ylazo]-1,3,5-triazin-2-ylazo]-1,3,5-triazin-2-ylazon-2-ylaz
- -isophthalate; ammonium 5-[8-[4-[4-[4-[7-(3,5-dicarboxylatophenylazo)-8-hydroxy-3,6-disulfonatonaphthalen-1-ylamino]-6-hydroxy-1,3,5-triazin-2-yl]-2,5-dimethylpiperazin-1-yl]-6-hydroxy-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfonatonaphthalen-2-ylazo]
- -2-yl]-2,5-dimethylpiperazin-1-yl]-6-hydroxy-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfonaphthalen-2-ylazo]-isophthalic acid" and the sum of the sum
- R11: Highly flammable. R22: Harmful if swallowed. R36: Irritating to eyes.
- R41: Risk of serious damage to eyes. R67: Vapours may cause drowsiness and dizziness.
- <Revised information from the previous version> Entirely revised.

Date of Issue: Revised: July 15, 2003 September 9, 1997



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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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