

# MATERIAL SAFETY DATA SHEET

	IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Product Name:	Canon Color BJ Cartridge BC-62e Photo
<b>Product Code:</b>	0920A / F45-1561
Manufacturer:	Canon Inc.
	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
II	

Use of the Product: Ink for Ink Jet Printer

SECTION 2	COMPOSI	FION/IN	NFORMATI	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
Glycerin	56-81-5 / 200-289-5	5 - 10	None / None	(as mist) Total dust TWA = 15 mg/m3 Respirable fraction TWA = 5 mg/m3	(as mist) TWA = 10 mg/m <sup>3</sup>	Not established	Not established
Thiodiglycol	111-48-8 / 203-874-3	5 - 10	Xi / R36	Not established	Not established	Not established	Not established
Isopropyl alcohol	67-63-0 / 200-661-7	1 - 3	F / R11 Xi / R36 R67	TWA = 400 ppm, 980 mg/m <sup>3</sup>	TWA = 400 ppm, 983 mg/m <sup>3</sup> STEL = 500 ppm, 1230 mg/m <sup>3</sup>	Not established	200 ppm, 500 mg/m <sup>3</sup>
Copper, [29H,31H-phthalocyaninato(2-) -N29,N30,N31,N32] -, aminosulfonyl sulfo derivs., sodium salts (Contained only in cyan ink)	90295-11-7 / 291-001-7	< 3	Xi / R36	Not established	Not established	Not established	Copper and its compounds Inhalable fraction 1.0 mg/m <sup>3</sup>
C.I. Direct Violet 107 - The substance name in accordance with 67/547/EEC is stated in SECTION 16 (Contained only in magenta ink)	Not registered / 413-180-4	< 3	Xi / R41	Not established	Not established	Not established	Not established
C.I. Direct Yellow 173 (Contained only in yellow ink)	Not registered / 414-410-6	< 3	Xi / R41	Not established	Not established	Not established	Not established
Ammonia derivative	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
Water	7732-18-5 / 231-79-12	60 - 80	None / None	Not established	Not established	Not established	Not established
							-



### < 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 six colors ink cartridges. (Cyan, Magenta, Yellow, Light cyan, Light magenta and Light 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:

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



### SECTION 5 FIRE FIGHTING MEASURES

### **Fire Fighting Measures:**

### **Extinguishing Media:**

CO<sub>2</sub>, water, foam or dry chemicals

# Unsuitable Extinguishing Media:

None

### **Special Fire Fighting Procedures:**

None

# Unusual Fire and Explosion Hazards:

None

### Fire and Explosive Properties (See also Section 9):

**Hazardous Combustion Products:** 

CO, CO<sub>2</sub>, NOx and SOx

### **Other Properties:**

None

### SECTION 6 ACCIDENTAL RELEASE MEASURES

### **Personal Precautions:**

Avoid contact with skin, eyes and clothing.

### **Environmental Precautions:**

Do not release to sewer, surface water or ground water.

### Method for Cleaning Up:

Wipe off with wet cloth or paper.

### SECTION 7 HANDLING AND STORAGE

### Handling:

Use with adequate ventilation. Avoid contact with skin, eyes and clothing. 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.

### Specific Uses:

### Ink for Ink Jet Printer. For more information, please refer to the instruction of this product.

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Exposure Guidelines:**

Not established for this ink. (See also SECTION 2)

# **Engineering Controls:**

Use adequate ventilation.

# **Personal Protection Equipment(s):**

<b>Respiratory Protection:</b>	Required
	Not Required
Eye/Face Protection:	Required
	Not Required
Skin Protection:	Required
	Not Required

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance:	Cyan, magenta and yellow liquid		
Odor:	Slight odor		
pH:	9.2 - 11.0		
Boiling Point/Range(°C):	Not available		
Melting Point/Range(°C):	Not available		
<b>Decomposition Temperature(°C):</b>	Not available		
Flash Point(°C):	Estimate : 57 - 60 (Tag Closed Cup. Combustion is not sustainable.)		
Flammable (Explosive) Limits:	Not available		
Autoignition Temperature(°C):	Estimate : 440 - 460 (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		
Partition Coefficient (n-Octanol/Water)	Not available		
Percent Volatile (%):	60 - 80		
Evaporation Rate:	Not available		
Viscosity (mPa s):	1.5 - 2.4		
SECTION 10 STABILITY AND REACTIVITY			
Stability:	☑ Stable □ Unstable		
Conditions to Avoid:	None		
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents		
Hazardous Decomposition Products:	CO, CO <sub>2</sub> , NOx, Ammonia and SOx		
Hazardous Polymerization:	☐ May Occur X Will Not Occur		
Conditions to Avoid:	None		

SECTION 1	1 TOXICOLOGICAL INFORMATION
Acute Toxic	
Inhalati	
Not a	vailable
Ingestio	
Not a	vailable
Eye:	
•	: Minimal irritant, Maximum Group Mean Score = 4.0, Class 3 (rabbit)
	enta : Minimal irritant, Maximum Group Mean Score = 5.3, Class 3 (rabbit)
	w : Minimal irritant, Maximum Group Mean Score = 5.3, Class 3 (rabbit)
0	cyan, Light magenta and Light yellow : [Data of similar composition ink] Minimal irritant (rabbit) ECD Guidelines No.405 (1987)
	2/69/EEC Method B5
Skin:	
	: Mild irritant, Primary Irritation Index = $0.5$ (rabbit)
	enta : Mild irritant, Primary Irritation Index = 0.3 (rabbit)
	w : Mild irritant, Primary Irritation Index = 0.7 (rabbit)
	cyan, Light magenta and Light yellow : [Data of similar composition ink] Mild irritant (rabbit) ECD Guidelines No.404 (1992)
	2/69/EEC Method B4
Sensitization	
	: Non sensitizer, Sensitization rate = $0 \% (0/10)$ (guinea pig) enta : Non sensitizer, Sensitization rate = $0 \% (0/10)$ (guinea pig)
	w : Non sensitizer, Sensitization rate = $0 \% (0/10)$ (guinea pig)
	cyan, Light magenta and Light yellow : [Data of similar composition ink] Non sensitizer (guinea pig)
	ECD Guidelines No.406 (1992)
	5/54/EC Method B6
/utagenici	τ <b>ν</b> .
-	s test :
	ll colors : Negative (test strains: <i>S.typhimurium</i> )
	ve Toxicity:
-	vailable
Canainagan	init
Carcinogen	ivailable
	wanabe
Others:	
Not a	vailable



SECTION 12	ECOLOGICAL INFORMATION			
Mobility:	Not available			
Persistence / Degradability:	Not available			
<b>Bioaccumulation:</b>	Not available			
Ecotoxicity:	Not available			
Other Adverse Eff	fects: Not available			
SECTION 13	DISPOSAL CONSIDERATION			
Method of Disposal: Disposal should 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: None				
Marine Pollutant:	Marine Pollutant: Yes Chemical name (wt%):			
<b>Special Precaution</b>	s: None			
SECTION 15 REGULATORY INFORMATION   < EU Information > Information on the Label:   Symbol & Indication: Not required				
R-Phrase: Not required				
S-Phrase: Not required				
Dangerous Component(s): None				
Special Precautions 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	D: Not regulated			
(EEC)2455/92	EEC)2455/92: Not regulated			
Others:	None			



< USA Information >			
Information on the Label under F	HSA:		
Signal Word: Not required			
Hazard warning: Not required			
Safety Advice: Not required			
Hazardous Component(s):			
SARA Title III §313:			
Chemical Name	Chemical Name		
"Copper Compounds" (Contain (as Cu)	ed only in cyan ink)	1 - 3 (< 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 INFOR	MATION		
-1,3,5- triazin-2-yl]-2,5-dimethylpiperaz -isophthalate; ammonium 5-[8-[4-[4-[4- -1,3,5-triazin-2-yl] -2,5-dimethylpiperaz -isophthalate; 5-[8-[4-[4-[4-[7-(3,5-dicar	me(s)> 3,5-dicarboxylatophenylazo)-8-hydroxy-3,6-disulfon in-1-yl]-6-hydroxy-1,3,5-triazin-2-ylamino]-1-hydrox (7-(3,5-dicarboxylatophenylazo)-8-hydroxy-3,6-disul in-1-yl]-6-hydroxy-1,3,5-triazin-2-ylamino]-1-hydroxy boxylatophenylazo)-8-hydroxy-3,6-disulfonatonapht lroxy-1,3,5-triazin-2-ylamino]-1-hydroxy-3,6-disulfon	xy-3,6-disulfonatonaphthalen-2-ylazo] fonatonaphthalen-1-ylamino]-6-hydroxy xy-3,6-disulfonatonaphthalen-2-ylazo] halen-1-ylamino]-6-hydroxy-1,3,5-triazin	

<R phrase list> R11 : Highly flammable. R36 : R41 : Risk of serious damage to eyes. R36 : Irritating to eyes. eyes. R67 : Vapours may cause drowsiness and dizziness.

<Revised information from the previous version> Entirely revised.



#### 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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