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Canon

### MATERIAL SAFETY DATA SHEET

MSDS #: IC1202-0101 Product Code: 0918A / F45-1241

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

**COMPANY/UNDERTAKING** 

**Product Name:** Canon Color BJ Cartridge BC-61

**Product Code:** 0918A / F45-1241

**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

Use of the Product: Ink for Ink Jet Printer

#### **SECTION 2** COMPOSITION/INFORMATION ON INGREDIENTS < Ingredient(s) > CAS#/ Weight EU Symbol Chemical Name / USA ACGIH TLV EU ILV DFG MAK OSHA PEL EC# % **R-Phrase** Generic name Glycerin 56-81-5 / 5 - 10None / None (as mist) (as mist) Not established Not established 200-289-5 Total dust $TWA = 10 \text{ mg/m}^3$ $TWA = 15 \text{ mg/m}^3$ Respirable fraction $TWA = 5 \text{ mg/m}^3$ Thiodiglycol 111-48-8 / 5 - 10Xi / R36 Not established Not established Not established Not established 203-874-3 TWA = 400 ppm,F/R11 TWA = 400 ppm,67-63-0 / 1 - 3 Isopropyl alcohol Not established 200 ppm, 200-661-7 Xi / R36 980 mg/m<sup>3</sup> 983 mg/m<sup>3</sup> 500 mg/m<sup>3</sup> R67 STEL = 500 ppm1230 mg/m<sup>3</sup> 90295-11-7 Xi / R36 Not established Not established Copper, [29H,31H-phthalocyaninato(2-) 1 - 3 Not established Copper and its compounds 291-001-7 -N29,N30,N31,N32] -Inhalable fraction aminosulfonyl sulfo derivs., 1.0 mg/m<sup>3</sup> sodium salts (Contained only in cyan ink) C.I. Direct Violet 107 1 - 3 Xi / R41 Not established Not established Not established Not established Not registered / - The substance name in 413-180-4 accordance with 67/547/EEC is stated in SECTION 16 (Contained only in magenta ink) C.I. Direct Yellow 173 1 - 3 Xi / R41 Not established Not established Not established Not established Not registered / (Contained only in yellow 414-410-6 ink) Ammonia derivative Confidential 5 - 10 None / None Not established Not established Not established Not established Water 7732-18-5 / 60 - 80 None / None Not established Not established Not established Not established 231-79-12

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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 three colors ink cartridges. (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

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 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.		
· · · · · · · · · · · · · · · · · · ·		
<b>Storage:</b> 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):		
Respiratory Protection: Required		
■ Not Required  Eye/Face Protection: □ Required		
Eye/Face Protection: ☐ Required  ☑ Not Required		
Skin Protection: Required		
☑ Netquired		

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES		
Appearance:	Cyan, magenta and yellow liquid	
Odor:	Slight odor	
pH:	9.2 - 10.4	
Boiling Point/Range( $^{\circ}$ C):	Not available	
<b>Melting Point/Range(°C):</b>	Not available	
<b>Decomposition Temperature</b> ( ${}^{\circ}C$ ):	Not available	
Flash Point(°C):	Estimate: 55 - 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.	
<b>Explosive Properties:</b>	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	
<b>Evaporation Rate:</b>	Not available	
Viscosity (mPa s):	1.6 - 2.4	
SECTION 10 STABILITY AND REACTIVITY		
Stability:		
Conditions to Avoid:	None	
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents	
<b>Hazardous Decomposition Products:</b>	CO, CO <sub>2</sub> , 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:

Cyan: Minimal irritant, Maximum Group Mean Score = 4.0, Class 3 (rabbit) Magenta: Minimal irritant, Maximum Group Mean Score = 5.3, Class 3 (rabbit) Yellow: Minimal irritant, Maximum Group Mean Score = 5.3, Class 3 (rabbit)

OECD Guidelines No.405 (1987)

92/69/EEC Method B5

#### Skin:

 $\begin{aligned} & \text{Cyan: Mild irritant, Primary Irritation Index} = 0.5 \text{ (rabbit)} \\ & \text{Magenta: Mild irritant, Primary Irritation Index} = 0.3 \text{ (rabbit)} \\ & \text{Yellow: Mild irritant, Primary Irritation Index} = 0.7 \text{ (rabbit)} \end{aligned}$ 

OECD Guidelines No.404 (1992)

92/69/EEC Method B4

#### **Sensitization:**

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

OECD Guidelines No.406 (1992)

96/54/EC 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		
<b>Mobility:</b>	Not available		
Persistence / Degradability:	Not available		
Bioaccumulation:	: Not available		
<b>Ecotoxicity:</b>	Not available		
Other Adverse Eff	Pects: Not available		
SECTION 13	DISPOSAL CONSIDERATION		
Method of Disposa Disposal should	be subject to federal, state and local laws.		
SECTION 14	TRANSPORT INFORMATION		
UN #:	None		
<b>UN Shipping Nam</b>	e: None		
<b>UN Classification:</b>	None		
UN Packing Group	None None		
Marine Pollutant:	☐ Yes Chemical name (wt%):  ☒ No		
<b>Special Precaution</b>	s: None		
SECTION 15 < EU Information Information on th Symbol & Indi			
R-Phrase: Not required			
S-Phrase: Not required			
None None	mponent(s):		
Special Precau Not required	tions under 1999/45/EC Annex V:		
Specific Provision	ns in Relation to Protection of Man or the Environment:		
76/769/EEC:	Not regulated		
(EC)2037/2000	Not regulated		
(EEC)2455/92:	Not regulated		
Others:	None		

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MSDS #: IC1202-0101
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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 NameWeight %"Copper Compounds" (Contained only in cyan ink)1 - 3(as Cu)(< 0.35)</td>

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":

- -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]
- -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]
- -isophthalate; 5-[8-[4-[4-[7-(3,5-dicarboxylatophenylazo)-8-hydroxy-3,6-disulfonatonaphthalen-1-ylamino]-6-hydroxy-1,3,5-triazin
- -isophthalate; 5-[6-[4-[4-[4-[7-(3,3-dicarooxylatophenylazo]-8-nydroxy-3,6-disulfonaphthalen-1-ylamino]-6-nydroxy-1,3,5-diazin-2-ylamino]-1-hydroxy-3,6-disulfonaphthalen-2-ylazo]-isophthalic acid"

<R phrase list>

R11 : Highly flammable. 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.



### MATERIAL SAFETY DATA SHEET

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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, (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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