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MATERIAL SAFETY DATA SHEET

MSDS #: IC1180-0101
Product Code: 0955A / F47-0741

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon Ink Cartridge BCI-21 Color

Product Code: 0955A / F47-0741

Manufacturer: Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Phone # 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

< 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	$(as mist)$ $TWA = 10 mg/m^3$	Not established	Not established
Thiodiglycol	111-48-8 / 203-874-3	5 - 10	Xi / R36	Not established	Not established	Not established	Not established
Copper compound (Contained only in cyan ink)	Confidential	2 - 6	None / None	Not established	Not established	Not established	Copper and its compounds Inhalable fraction 1.0 mg/m³
Isopropyl alcohol	67-63-0 / 200-661-7	1 - 3	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/m³
C.I. Direct Yellow 173 (Contained only in yellow ink)	Not registered / 414-410-6	1 - 3	Xi / R41	Not established	Not established	Not established	Not established
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	1 - 3	Xi / R41	Not established	Not established	Not established	Not established
Poly(oxy-1,2-ethanediyl), alpha., alpha.'-[1,4-dimethyl-1,4-bis(2-methylpropyl)-2-butyne-1,4-diyl]bis[.omega	9014-85-1 / Not applicable	1 - 3	Xi / R41	Not established	Not established	Not established	Not established
hydroxy- 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

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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.

Glycerin mist may cause physical irritation and difficulty breathing.

Over exposure to isopropyl alcohol may cause headache, nausea, dizziness, vomiting, drowsiness, cough and sore throat.

Ingestion:

Ingestion of glycerin and/or isopropyl alcohol may cause headache, nausea, dizziness, vomiting, drowsiness, abdominal pain, dullness and sore throat.

Eye:

May cause minimal irritation based on the animal test data of this ink.

(See SECTION 11)

Skin:

May be no irritation and no sensitization based on the animal test data of this ink.

(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 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 ₂ , 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 ₂ , 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.					
When contact, wash out immediately.					
Storage: Keep in a cool and dry place. Keep away from heat and flame.					
Protect from sunlight.					
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. (Also refer to SECTION 2)					
Engineering Controls:					
Use adequate ventilation.					
Personal Protection Equipment(s):					
Respiratory Protection: Required					
➤ Not Required					
Eye/Face Protection: Required					
■ Not Required					
Skin Protection: Required					
₹7 λ 7 √ 15 1 1					
➤ Not Required					

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SECTION 9 PHYSICAL AND CH	HEMICAL PROPERTIES		
Appearance:	Cyan, magenta and yellow liquid		
Odor:	Slight odor		
pH:	8.2 - 10.3		
Boiling Point/Range(°C):	Not available		
Melting Point/Range(°C):	Not available		
Decomposition Temperature (${}^{\circ}C$):	Not available		
Flash Point(°C):	Estimate 55 - 57 (Tag.closed cup. Do not sustain combustion.)		
Flammable (Explosive) Limits:	Not available		
Autoignition Temperature (°C):	Estimate 460 - 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		
Partition Coefficient (n-Octanol/Water)	: Not available		
Percent Volatile (%):	60 - 80		
Evaporation Rate:	Not available		
Viscosity (mPa s):	1.9 - 2.6		
SECTION 10 STABILITY AND R	EACTIVITY		
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:

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:

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:

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: 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:							
Ecotoxicity:	Not available						
Other Adverse Ef	fects: Not available						
SECTION 13	DISPOSAL CONSIDERATION						
Method of Disposal may b	al: e subject to federal, state and local laws.						
SECTION 14	TRANSPORT INFORMATION						
UN #:	None						
UN Shipping Nam	None None						
UN Classification:	None						
UN Packing Grou	p: None						
Marine Pollutant:	☐ Yes Chemical name (wt%): ☒ No						
Special Precaution	None None						
SECTION 15 < EU Information Information on the Symbol & Index R-Phrase: Not required	he Label: ication: Not required						
S-Phrase: Not required	1						
Dangerous Component(s): None							
Special Precau Not required	ntions under 1999/45/EC Annex V:						
Specific Provisions in Relation to Protection of Man or the Environment:							
76/769/EEC:	Not regulated						
(EC)2037/200	Not regulated						
(EEC)2455/92	: 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 NameWeight %"Copper Compounds" (Contained only in cyan ink)2 - 6

"Copper Compounds" (Contained only in cyan ink) 2 - 6 (< 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]-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-[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-disulfonaphthalen-2-ylazo]-isophthalic acid"

<R phrase list>

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.

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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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