

MATERIAL SAFETY DATA SHEET

Page 1 of 8 MSDS #: IC1177-0101 Product Code:

8191A

SECTION 1	IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Product Name:	Canon Ink Tank BCI-15 Color
Product Code:	8191A
Manufacturer:	Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Phone # 03-3758-211
Supplier:	Canon USA, Inc., One Canon Plaza, Lake Success, NY, 11042, 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/m ³ Respirable fraction TWA = 5 mg/m ³	(as mist) TWA = 10 mg/m ³	Not established	Not established
Ethylene glycol (Contained in cyan and magenta ink)	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
Diethylene glycol	111-46-6 / 203-872-2	2 - 6	Xn / R22	Not established	Not established	Not established	10 ppm, 44 mg/m ³
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	2 - 6	Xi / R36	Not established	Not established	Not established	Copper and its compounds Inhalable fraction 1.0 mg/m ³
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/m ³
Quinoline derivative (Contained only in magenta ink)	Confidential	1 - 3	Xi / R36	Not established	Not established	Not established	Not established
Triazine derivative (Contained only in magenta ink)	Confidential	1 - 3	Xi / R36 R52/53	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



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< Carcinogen > Chemical Name	CAS # Reference
None	
SECTION 3 EU Classification: Not classified as	HAZARDS IDENTIFICATION
Emergency Overvie	•
	olors ink tanks. (Cyan, Magenta and Yellow)
	uid mixture with slight odor.
Inhalation:	ffects and Symptoms: effects are expected under intended use.
	st may cause physical irritation and difficulty breathing.
Over exposu dizziness, vo	re to ethylene glycol, diethylene glycol and/or isopropyl alcohol may cause headache, nausea, omiting, drowsiness, cough and sore throat.
0	glycerin, ethylene glycol, diethylene glycol and/or isopropyl alcohol may cause headache, nausea, miting, drowsiness, abdominal pain, dullness, diarrhea and sore throat.
-	agenta : May cause minimal irritation based on the animal test data of similar composition ink. y cause minimal irritation based on the animal test data of this ink. ON 11)
composition	y cause mild irritation and no sensitization based on the animal test data of this ink.
Chronic Effect	·
Not identifie	d
Medical Condi Not identifie	tions Generally known to be Aggravated by Exposure: d
SECTION 4	FIRST AID MEASURES
First Aid Measure Inhalation:	s:
If symptoms	are experienced, move victim to fresh air and obtain medical advice.
Ingestion:	
	n. Give one or two glasses of water.
	or discomfort occurs, obtain medical advice immediately.
	y flush with water for 5 minutes or until the chemical is removed.
Skin:	~
	vater and soap or mild detergent.
	persists, obtain medical advice.
Note to Physicians	: :
None	



SECTION 5 FIRE FIGHTING MEASURES

Fire Fighting Measures:

Extinguishing Media:

CO₂, 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, CO₂ and NOx

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.

HANDLING AND STORAGE **SECTION 7**

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 Not Required



Product Code:

8191A

SECTION 9 PHYSICAL AND CH	IEMICAL PROPERTIES
Appearance:	Cyan, magenta and yellow liquid
Odor:	Slight odor
рН:	8.0 - 10.0
Boiling Point/Range(°C):	Not available
Melting Point/Range(°C):	Not available
Decomposition Temperature(°C):	Not available
Flash Point(°C):	Estimate : 55 - 57 (Tag.closed cup. Do not sustain combustion.)
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 (%):	60 - 80
Evaporation Rate:	Not available
Viscosity (mPa s):	1.9 - 2.6
SECTION 10 STABILITY AND R	EACTIVITY
Stability:	X Stable □ Unstable
Conditions to Avoid:	None
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents
Hazardous Decomposition Products:	CO, CO ₂ , NOx and Ammonia
Hazardous Polymerization:	May Occur Will Not Occur
Conditions to Avoid:	None

Date of Issue: November 14, 2002



SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:

Not available

Ingestion:

Cyan and Magenta : [Data of similar composition ink] Estimated LD₅₀ > 2500 mg/kg (rat)

OECD Guidelines No.423 (1996) 96/54/EC Method B1 tris

Yellow : Not available

Eye:

Cyan and Magenta : [Data of similar composition ink] Minimal irritant (rabbit) Yellow : Minimal irritant, Maximum Group Mean Score = 4.7, Class 3 (rabbit)

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

Skin:

Cyan and Magenta : [Data of similar composition ink] Mild irritant (rabbit) Yellow : Mild irritant, Primary Irritation Index = 0.2 (rabbit)

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

Sensitization:

Cyan and Magenta : [Data of similar composition ink] Non sensitizer (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 & E.Coli*)

Chromosome aberration test :

Magenta : Negative (test strains: *Human peripheral blood lymphocytes*) Cyan and Yellow : Not available

Reproductive Toxicity:

Not available

Carcinogenicity:

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.

Others:

Not available



SECTION 12	ECOLOGICAL INFORMATION
Mobility:	Not available
Persistence / Degradability:	Not available
Bioaccumulation:	Not available
Ecotoxicity:	Not available
	fects: Not available
SECTION 13	DISPOSAL CONSIDERATION
Method of Dispose Disposal may be	al: e subject to federal, state and local laws.
SECTION 14	TRANSPORT INFORMATION
UN #:	None
UN Shipping Nam	e: None
UN Classification:	None
UN Packing Grou	p: None
Marine Pollutant:	 ☐ Yes Chemical name (wt%): ☑ No
Special Precaution	None
SECTION 15	REGULATORY INFORMATION
< EU Information Information on the second second	>
Symbol & Ind	ication: Not required
R-Phrase:	
Not required S-Phrase:	1
Not required	I
Dangerous Co 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	D: Not regulated
(EEC)2455/92	Not regulated
Others:	None



< USA Information >

Information on the Label under FHSA:

Not required Safety Advice:		
Not required		
Hazardous Component(s): None		
SARA Title III §313:		
Chemical Name	Weight %	
"Ethylene glycol" (107-21-1) (Contained in cyan and magenta ink)	2 - 6
"Copper Compounds" (Contain	ned 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 cri	teria of NOHSC.
ECTION 16 OTHER INFO	RMATION	

R67 : Vapours may cause drowsiness and dizziness.

R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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
- 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.
- $DFG\ MAK:\ MAK (Maximale\ Arbeits platzkonzentrationen)\ under\ Deutsche\ Forschungsgemeinschaft.$

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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