

MATERIAL SAFETY DATA SHEET

	Page 1 of 8
MSDS #:	IC1043-0202
Product Code:	7717A001AA

	IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Product Name:	Canon Ink Tank BCI-1302BK
Product Code:	7717A001AA
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

	00002 0000			01111011101			
< 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	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
Isopropyl alcohol	67-63-0 / 200-661-7	1 - 3	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
Poly(oxy-1,2-ethanediyl), .alpha.,alpha.'-[1,4-dimethyl-1,4- bis(2-methylpropyl)-2-butyne-1,4- diyl]bis[.omegahydroxy-	9014-85-1 / Not applicable	1 - 3	Xi / R41	Not established	Not established	Not established	Not established
Tetralithium 6-amino-4-hydroxy-3-[7-sulfonato -4-(5-sulfonato-2-naphthylazo]-1- naphthylazo]naphthalene-2,7-disu lfonate	107246-80-0/ 403-660-1	1 - 3	N / R51/53	Not established	Not established	Not established	Not established
Glycol	Confidential	5 - 10	None / None	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 / 231-791-2	50 - 70	None / None	Not established	Not established	Not established	Not established
ļ	I	I					I I



< 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:

Ink tank containing black liquid ink with slight odor. Combustible liquid and vapor.

Vapor or mist may cause respiratory tract, skin and eye irritation.

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:

No irritation is expected. (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.

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_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. Avoid breathing vapor and mist.

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:

Avoid breathing vapor and mist. 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.

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
	Not Required
Skin Protection:	Required
	Not Required



SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES **Appearance:** Black liquid **Odor:** Slight odor pH: 9 - 10 **Boiling Point/Range(°C):** Not available Melting Point/Range(°C): Not available **Decomposition Temperature(°C):** Not available Flash Point(°C): 58.2 (Tag. Closed Cup. Combustion is not sustainable.) 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:** 1.0 - 1.1 Water Solubility : Miscible **Fat Solubility :** Not available Partition Coefficient (n-Octanol/Water): Not available **Percent Volatile (%):** 50 - 70 **Evaporation Rate:** Not available Viscosity (mPa s): 1 - 3 **SECTION 10** STABILITY AND REACTIVITY Stable Stable **Stability:** ☐ Unstable **Conditions to Avoid:** None Materials to Avoid: Acids, bases, oxidizing materials and reducing agents **Hazardous Decomposition Products:** CO, CO₂, NOx, SOx and Ammonia Hazardous Polymerization: May Occur Will Not Occur **Conditions to Avoid:** None



SECTION 11	TOXICOLOGICAL INFORMATION			
Acute Toxicity:				
Inhalation:				
Not availab	le			
Ingestion:				
Not availab	le			
Eye:				
Non-irritan	t (rabbit)			
	Guidelines No.405 (1987)			
Skin:				
Non-irritar	t (rabbit)			
OECD C	Guidelines No.404 (1992)			
Sensitization:				
Non-sensit	izer (guinea pig)			
OECD	Guidelines No.406 (1992)			
96/54/E	96/54/EC Method B6			
Mutagenicity:				
Ames test:	Negative (S. typhimurium & E. Coli)			
Chromosome aberration test: Negative (Human peripheral blood lymphocytes)				
Reproductive Tox	icity:			
Not availab	le			
Carcinogenicity:				
Not availab	le			
Others:				
Not availab	le			



IC1043-0202
7717A001AA

SECTION 12 E	COLOGICAL INFORMATION			
Mobility:	Not available			
Persistence / Degradability:	Not available			
Bioaccumulation:	Not available			
Ecotoxicity:	 Tetralithium 6-amino-4-hydroxy-3-[7-sulfonato-4-(5-sulfonato-2-naphthylazo)-1-naphthylazo] naphthalene-2,7-disulfonate (107246-80-0): Fish, Acute Toxicity Test: 96h LC₅₀ 560-1000mg/l, NOEC >560mg/l (<i>Cypris carpio</i>) OECD Guidelines No.203 (1984) & 84/449/EEC Method C1 Daphnia sp., Acute Immobilisation Test: 24h EC₅₀ 560-1000mg/l, NOEC 560mg/l (<i>Daphnia magna</i>) OECD Guidelines No.202 (1984) & 84/449/EEC Method C2 Daphnia sp., Acute Reproduction Test: 19 days NOEC 5.6mg/l, LOEC 18mg/l (<i>Daphnia magna</i>) OECD Guidelines No.202 (1984) NOEC: No Observed Effet Concentration, LOEC: Loewst Observed Effcet Concentration 			
Other Adverse Effect	ts: Not available			
SECTION 13 DISPOSAL CONSIDERATION Method of Disposal:				
SECTION 14 T	RANSPORT INFORMATION			
UN #:	None			
UN Shipping Name:	None			
UN Classification:	None			
UN Packing Group:	None			
Marine Pollutant:	☐ Yes Chemical name (wt%): ☑ No			
Special Precautions:	None			
	EGULATORY INFORMATION			
< EU Information >				
Information on the La Symbol & Indicat				
R-Phrase:				
Not required				
S-Phrase: Not required				
Dangerous Component(s): None				
Special Precautions under 1999/45/EC Annex V:				
Safety data sheet available for professional user on request.				
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			



< USA Information >				
Information on the Label under OSHA HCS:				
Signal Word: Not required				
Hazard warning: COMBUSTIBLE LIQUID AND VAPOR OR MIST MAY CAUS	VAPOR. SE RESPIRATORY TRACT, SKIN AND EYE II	RRITATION.		
Safety Advice: Not required				
Hazardous Component(s): Glycerin (56-81-5)	5 - 10 %			
Ethylene glycol (107-21-1) Isopropyl alcohol (67-63-0)	2 - 6 % 1 - 3 %			
SARA Title III §313:				
Chemical Name		Weight %		
"Ethylene glycol" (107-21-1)		2 - 6		
California Proposition 65:				
Chemical Name		Weight %		
None				
< Canada Information > WHMIS Controlled Product:	Not applicable (Manufactured article)			
< Australia Information > Statement of Hazardous Nature:				
SECTION 16 OTHER INFORMATION				
<pre><r list="" phrase=""> R11: Highly flammable. R22: Harmful if swallowed. R36: Irritating to eyes. R41: Risk of serious damage to eyes. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R67: Vapours may cause drowsiness and dizziness.</r></pre>				

<Revised information from the previous version> Section 2, 3, 4, 5, 6, 7, 9, 10, 11 and 13 $\,$



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
- Canada workprace Hazardous Materials mormation 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 Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft.
- TWA: Time Weighted Average.
- STEL: Short Term Exposure Limit.
- 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.

The information, data and recommendations set forth herein (the "Information") are presented in good faith and are believed to be correct as of the date hereof. The company/manufacturer makes no representations as to the completeness or accuracy of the Information and disclaims responsibility for any reliance thereon. The Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal, state and local laws and regulations. In no event will the company/manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO THE INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.