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MATERIAL SAFETY DATA SHEET

MSDS #: IC1176-0101
Product Code: 8190A

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name: Canon Ink Tank BCI-15 Black

Product Code: 8190A

Manufacturer: Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Phone # 03-3758-2111

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/m³ Respirable fraction TWA = 5 mg/m³	(as mist) TWA = 10 mg/m ³	Not established	Not established
Diethylene glycol	111-46-6 / 203-872-2	2 - 6	Xn / R22	Not established	Not established	Not established	10 ppm, 44 mg/m ³
Ammonium benzoate	1863-63-4 / 217-468-9	1 - 3	Xi / R36	Not established	Not established	Not established	Not established
Triol	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
Water	7732-18-5 / 231-79-12	65 - 85	None / None	Not established	Not established	Not established	Not established



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< Carcinogen >

Chemical Name CAS # Reference

None

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

Ink tank containing black liquid ink 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 diethylene glycol may cause headache, nausea, dizziness, vomiting, drowsiness and cough.

Ingestion:

Ingestion of glycerin and/or diethylene glycol may cause headache, nausea, dizziness, vomiting, drowsiness, abdominal pain, dullness and diarrhea.

Eye:

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

(See SECTION 11)

Skin:

May be no irritation and no sensitization based on the animal test data of similar composition 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 FI	RE FIGHTING MEASURES
Fire Fighting Measur	es:
Extinguishing Me	
CO ₂ , water, foar	n or dry chemicals
Unsuitable Exting None	uishing Media:
Special Fire Fight None	ing Procedures:
Unusual Fire and None	Explosion Hazards:
Fire and Explosive Pr	operties (See also Section 9):
Hazardous Comb	
CO, CO ₂ and N	Ox
Other Properties: None	
None	
SECTION 6 AC	CCIDENTAL RELEASE MEASURES
Personal Precautions:	
Avoid contact with	skin, eyes and clothing.
Environmental Precau	ations:
Do not release to se	ewer, surface water or ground water.
Method for Cleaning	
Wipe off with wet c	loth or paper.
SECTION 7 HA	ANDLING AND STORAGE
Handling:	
Use with adequate v	ventilation.
	skin, eyes and clothing.
When contact, wash	out immediately.
Storage:	
Keep in a cool and o	
Protect from sunlight Keep out of the read	
Specific Uses:	in of children.
Ink for Ink Jet Print	er.
	on, please refer to the instruction of this product.
SECTION 8 EX	POSURE CONTROLS / PERSONAL PROTECTION
Exposure Guidelines:	TOSURE CONTROLS / TERSONAL TROTECTION
_	this ink. (Also refer to SECTION 2)
Engineering Controls	:
Use adequate ventil	ation.
Personal Protection E	
Respiratory Prote	ection: Required
D/D D / /*	☑ Not Required
Eye/Face Protection	□ 1
Claim Danada adda a	☑ Not Required
Skin Protection:	☐ Required X Not Required
	2 1 to required

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MATERIAL SAFETY DATA SHEET

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SECTION 9 PHYSICAL AND CH	HEMICAL PROPERTIES
Appearance:	Black liquid
Odor:	Slight odor
pH:	7.7 - 8.3
Boiling Point/Range(°C):	Not available
Melting Point/Range(°C):	Not available
Decomposition Temperature (${}^{\circ}C$):	Not available
Flash Point(°C):	Estimate : None
Flammable (Explosive) Limits:	Not available
Autoignition Temperature (${}^{\circ}C$):	Not available
Flammability:	Neither flammable nor combustible.
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 (%):	65 - 85
Evaporation Rate:	Not available
Viscosity (mPa s):	1.68 - 2.28
SECTION 10 STABILITY AND R	FACTIVITY
Stability:	
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



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:

Not available

Ingestion:

Not available

Eye:

[Data of similar composition ink]

Minimal irritant (rabbit)

OECD Guidelines No.405 (1987)

92/69/EEC Method B5

Skin:

[Data of similar composition ink]

Non irritant (rabbit)

OECD Guidelines No.404 (1992)

92/69/EEC Method B4

Sensitization:

[Data of similar composition ink]

Non sensitizer (guinea pig)

OECD Guidelines No.406 (1992)

96/54/EC Method B6

Mutagenicity:

Ames test: Negative (test strains: S.typhimurium & E.Coli)

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

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MATERIAL SAFETY DATA SHEET

MSDS #:	IC1176-010
Product Code:	8100/

SECTION 12	ECOLOGICAL INFORMATION						
Mobility:	Not available						
Persistence /							
·	Not available						
Bioaccumulation:	Not available						
Ecotoxicity:	Not available						
Other Adverse Eff	fects: Not available						
SECTION 13	DISPOSAL CONSIDERATION						
Method of Disposa 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 Group	p: None						
Marine Pollutant:	☐ Yes Chemical name (wt%): ☒ No						
Special Precaution	None None						
SECTION 15	REGULATORY INFORMATION						
< EU Information Information on tl							
	ication: Not required						
R-Phrase:	•						
Not required							
S-Phrase: Not required	l .						
None None	mponent(s):						
-	tions under 1999/45/EC Annex V:						
Not required							
Specific Provision	ns in Relation to Protection of Man or the Environment:						
76/769/EEC:	Not regulated						
(EC)2037/2000	0: Not regulated						
(EEC)2455/92	Not regulated						
Others:	None						

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MATERIAL SAFETY DATA SHEET

IC1176-0101 MSDS #:

	1	MATERIAL SAFETT DATA SHEET	1 Toddet Code.	01701
< USA Information	>			
Information on the	e Label under F	THSA:		
Signal Word:	Not required			
Hazard warning Not required	g:			
Safety Advice: Not required				
Hazardous Com None	nponent(s):			
SARA Title III §3	13:			
Chemical Na	ıme		Weight %	
None				
California Propos	ition 65:			
Chemical Na	ıme		Weight %	
None				
< Canada Informati WHMIS Controlle		Not applicable (Manufactured article)		
< Australia Informa Statement of Haza		N - 4 - 1 : f': - 1 1 1	ANOUSC	
		Not classified as hazardous according to criteria of	I NOHSC.	
	OTHER INFOR	RMATION		
<r list="" phrase=""></r>				

S

R22: Harmful if swallowed. R36: Irritating to eyes.



MSDS #: IC1176-0101
Product Code: 8190A

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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