

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Ink Tank BCI-1001C
 Product Code: F47-2651
 Company Name: Canon Europa N.V.
 Address: Bovenkerkerweg 59-61, 1185 XB, Amstelveen, The Netherlands
 Phone #: 03-3758-2111
 MSDS #: IC0252-0101

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)

Chemical Name	CAS #	Weight %	EU Symbol	EU R-Phrase
Glycerin	56-81-5	5-10	None	None
Ethylene glycol	107-21-1	5-10	Xn	R22
Diethylene glycol	111-46-6	< 5	Xn	R22
Isopropyl alcohol	67-63-0	< 3	Xi	R36-67

Chemical Name	USA OSHA PEL	ACGIH TLV
Glycerin	(as mist) Total dust TWA = 15 mg/m ³ Respirable fraction TWA = 5 mg/m ³	(as mist) TWA = 10 mg/m ³
Ethylene glycol	Not established	STEL = 100mg/m ³
Diethylene glycol	Not established	Not established
Isopropyl alcohol	TWA = 400 ppm, 980 mg/m ³	TWA = 400 ppm, 983 mg/m ³ STEL = 500 ppm, 1230 mg/m ³

Chemical Name	EU ILV	DFG MAK
Glycerin	Not established	Not established
Ethylene glycol	Not established	TWA = 10ppm, 26mg/m ³
Diethylene glycol	Not established	TWA = 10 ppm, 44 mg/m ³
Isopropyl alcohol	Not established	TWA = 200 ppm, 500 mg/m ³

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS - Continued

Carcinogen

Chemical Name	CAS #	Reference
None		

Other Ingredient(s)

Chemical/Generic Name	Weight %
Water	60-80
Ammonia derivative	5-10

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: Small plastic container containing cyan liquid ink with slight odor. Vapor or mist may cause respiratory tract and eye irritation.

Potential Health Effects and Symptoms:

Inhalation: No adverse effects are expected under normal use. Over exposure to isopropanol, ethylene glycol and/or diethylene glycol may cause headache, nausea, dizziness, vomiting, drowsiness, cough and sore throat. Glycerin mist may cause physical irritation and difficulty breathing.

Ingestion: Over ingestion of isopropanol, ethylene glycol, diethylene glycol and/or glycerin may cause nausea, drowsiness, dizziness, vomiting, abdominal pain, headache, dullness.

Eye: May cause minimal irritation based on the animal test data. (See SECTION 11)

Skin: May cause mild irritation based on the animal test data. (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.
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Ingestion:	Give one or two glasses of water. If irritation or discomfort occur, obtain medical advice immediately.
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Eye:	Immediately flush with water for 5 minutes or until the chemical is removed. If irritation persists, obtain medical advice immediately.
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Skin:	Wash with water and soap or mild detergent. If irritation persist, obtain medical advice.
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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:

Flash Point(°C):	56.0 (Tag. closed cup. Do not sustain combustion.)
Flammable(Explosive) Limits:	No data available
Autoignition Temperature(°C):	No data available
Flammability:	Classified as "combustible liquid" under OSHA-HCS(USA) and "non-flammable" under 88/379/EEC(EU)

SECTION 5 FIRE FIGHTING MEASURES - Continued

Fire and Explosive Properties - Continued:

Autoflammability:	None
Explosive Properties:	None
Oxidizing Properties:	None
Hazardous Combustion Products:	CO, CO ₂ and NOx.
Other Properties:	None

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes and clothing.

Environmental Precautions: Do not release into sewer, surface water or ground water.

Method for Cleaning Up: Wipe off with wet cloth or paper.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and clothing. When contact, wash out immediately.

Storage: Store in a cool and dry place.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: Not established for this product.
(See SECTION 2)

Engineering Controls: Use usual ventilation to keep airborne concentrations below the exposure limit.(See SECTION 2)

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:	Cyan liquid
Odor:	Slight order
pH:	10.2
Boiling Point/Range(°C):	No data available
Melting Point/Range(°C):	No data available
Decomposition Temperature(°C):	No data available
Flash Point(°C):	56.0 (Tag. closed cup. Do not sustain combustion.)
Flammable (Explosive) Limits:	No data available
Autoignition Temperature(°C):	No data available
Flammability:	Classified as "combustible liquid" under OSHA-HCS(USA) and "non-flammable" under 88/379/EEC(EU)
Autoflammability:	None
Explosive Properties:	None
Oxidizing Properties:	None
Vapor Pressure:	No data available
Vapor Density:	No data available
Density / Specific Gravity:	1.062
Water Solubility:	Miscible
Fat Solubility:	No data available
Partition Coefficient (n-Octanol/Water):	No data available
Percent Volatile:	60-80 %
Evaporation Rate:	No data available

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable Unstable

Conditions to Avoid: None

Materials to Avoid: None

Hazardous Decomposition Products: CO, CO₂, NO_x and Ammonia.

Hazardous Polymerization: May Occur Will Not Occur

Conditions to Avoid: None

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation: No data available

Ingestion: No data available

Eye: Minimal irritant; (rabbit) Maximum Group Mean Score = 8.7, Class 3
OECD Guidelines No.405
Commission Directive 92/69/EEC Method B5

Skin: Mild irritant; (rabbit) Primary Irritation Index (PII) = 0.8
OECD Guidelines No.404
Commission Directive 92/69/EEC Method B4

Sensitization: Non sensitizer; (guinea pig) Sensitization rate= 0% (0/10)
OECD Guidelines No.406
Commission Directive 92/69/EEC Method B6

Mutagenicity: Ames test : Negative
(test strains: *S.typhimrium*)

Reproductive Toxicity: No data available

SECTION 11 TOXICOLOGICAL INFORMATION - Continued

Carcinogenicity: No human carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA(USA) regulation and EU Directive (Annex I to Directive 67/548/EEC).

Others: None

SECTION 12 ECOLOGICAL INFORMATION

Mobility: No data available

Persistence / Degradability: No data available

Bioaccumulation: No data available

Ecotoxicity: No data available

Other Adverse Effects: No data available

SECTION 13 DISPOSAL CONSIDERATION

Method of Disposal: Disposal may be subject to federal, state and local laws.

SECTION 14 TRANSPORT INFORMATION

UN #: None

UN Shipping Name: None

UN Classification: None

UN Packing Group: None

Special Precautions: None

SECTION 15 REGULATORY INFORMATION

EU Information:

Information on the Label:

Symbol & Indication: Not required

R-Phrase: Not required

S-Phrase: Not required

Dangerous Component(s): None

Specific Provisions in Relation to Protection of Man or the Environment:

76/769/EEC: Not regulated

(EC)3093/94: Not regulated

(EEC)2455/92: Not regulated

Others: None

USA Information:

Information on the Label:

Signal Word: None

Hazard warning: COMBUSTIBLE LIQUID AND VAPOR.
VAPOR OR MIST MAY CAUSE RESPIRATORY TRACT AND EYE IRRITATION.

Safety Advice: None

Hazardous Component(s): Glycerin(56-81-5) 5-10 %
Isopropyl alcohol(67-63-0) < 3 %

SARA Title III §313:

Chemical Name	Weight %
Ethylene glycol (107-21-1)	5-10
Copper compound	<5
As Copper metal	<0.35

California Proposition 65:

Chemical Name	Weight %
None	

SECTION 16 OTHER INFORMATION

Other Information:

None

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, 88/379/EEC and their amendments.
- EU Regulation (EC)3093/94, (EEC)2455/92 and their amendments.

Abbreviations:

- "EU" stands for European Union.
- "OSHA PEL" stands for PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration.
- "ACGIH TLV" stands for TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
- "EU ILV" stands for Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC.
- "DFG MAK" stands for MAK(Maximale Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft.
- "TWA" stands for Time Weighted Average.
- "IARC" stands for International Agency for Research on Cancer.
- "NTP" stands for National Toxicology Program (USA).

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