

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

Product Name: Canon Ink Tank BCI-1401PC
Product Code: 7572A001AA
Company Name: Canon Europa N.V.
Address: Bovenkerkerweg 59-61, 1185 XB, Amstelveen, The Netherlands
Use of the Product: Ink for Ink Jet Printer

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	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 = 400 ppm, 983 mg/m ³ STEL = 500 ppm, 1230 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[.omega.-hydroxy-	9014-85-1 / Not applicable	1 - 3	Xi/ R41	Not established	Not established	Not established	Not established
Ammonia derivative	Confidential	5 - 10	None/ None	Not established	Not established	Not established	Not established
Glycol	Confidential	5 - 10	None/ None	Not established	Not established	Not established	Not established
Water	7732-18-5 / 231-79-12	50 - 70	None/ None	Not established	Not established	Not established	Not established

< Carcinogen >

Chemical Name	CAS #	Reference
None		

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

Ink tank containing cyan 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.

Glycerin mist may cause physical irritation and difficulty breathing.

Over exposure to ethylene glycol, diethylene glycol and/or isopropyl alcohol may cause headache, nausea, dizziness, vomiting, drowsiness, sore throat and cough.

Ingestion:

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

Eye:

May cause mild 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

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 NO_x

Other Properties:

None

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid breathing vapor or mist.

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:

Avoid breathing vapor or mist.

Use with adequate ventilation.

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

Storage:

Keep away from heat and flame.

Keep in a cool and dry place.

Protect from sunlight.

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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Cyan liquid
Odor:	Slight odor
pH:	9.0 - 10.0
Boiling Point/Range(°C):	Not available
Melting Point/Range(°C):	Not available
Decomposition Temperature(°C):	Not available
Flash Point(°C):	Estimate : 60.7 (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:	1.06
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):	2.6 - 3.2

SECTION 10 STABILITY AND REACTIVITY

Stability:	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
Conditions to Avoid:	None
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents
Hazardous Decomposition Products:	CO, CO ₂ , NO _x and Ammonia
Hazardous Polymerization:	<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur
Conditions to Avoid:	None

SECTION 11 TOXICOLOGICAL INFORMATION**Acute Toxicity:****Inhalation:**

Not available

Ingestion:

Not available

Eye:

[Data of similar composition ink]

Mild 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 human carcinogen or potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

Others:

None

SECTION 12 ECOLOGICAL INFORMATION

Mobility: Not available
Persistence / Degradability: Not available
Bioaccumulation: Not available
Ecotoxicity: Not available
Other Adverse Effects: Not 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
Marine Pollutant: Yes No **Chemical name (wt%):**
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
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
(EEC)2455/92: Not regulated
Others: None

< USA Information >

Information on the Label under OSHA HCS:

Signal Word: Not required

Hazard warning:

COMBUSTIBLE LIQUID AND VAPOR.

VAPOR OR MIST MAY CAUSE RESPIRATORY TRACT, SKIN AND EYE IRRITATION.

Safety Advice:

Not required

Hazardous Component(s):

Glycerin (56-81-5)	5 - 10 %
Ethylene glycol (107-21-1)	2 - 6 %
Isopropyl alcohol (67-63-0)	1 - 3 %

SARA Title III §313:

<u>Chemical Name</u>	<u>Weight %</u>
Ethylene glycol (107-21-1)	2 - 6

California Proposition 65:

<u>Chemical Name</u>	<u>Weight %</u>
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

<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.

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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