

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

Product Name: Ink Tank BCI-3ePC Photo for Bubble Jet Printer

STATEMENT OF HAZARDOUS NATURE: Not classified as hazardous according to the criteria on Worksafe Australia.

 Manufacturer: Canon Inc.
 30-2, Shimomaruko 3-Chome, Ohta-ku Tokyo 146-8501, Japan
 Phone: +81 3 3758-2111

 Distributor: Canon Australia Pty Ltd
 1 Thomas Holt Drive
 North Ryde NSW 2113
 Phone: (02) 9805-2000

 Date of preparation: 6 June, 2000
 Revised: 21 November, 2000

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS
Hazardous Ingredient(s)

Chemical Name	CAS #	Weight %	EU Symbol	EU R-Phrase
Glycerin	56-81-5	< 9	None	None
Ethylene glycol	107-21-1	< 6	Xn	R22
Diethylene glycol	111-46-6	< 4	Xn	R22
Isopropyl alcohol	67-63-0	< 3	Xi	R36, 67
Copper compound	Not specified in DFG MAK list	<2	None	None

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 (aerosol) Ceiling = 100 mg/m ³
Ethylene glycol	Not established	Not established
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
Copper compound	Not established	Not established

Chemical Name	EU ILV	DFG MAK
Glycerin	Not established	Not established
Ethylene glycol	TWA = 20 ppm, 52 mg/m ³ STEL = 40 ppm, 104 mg/m ³	TWA = 10 ppm, 26 mg/m ³ TWA = 10 ppm, 44 mg/m ³
Diethylene glycol	Not established	TWA = 200 ppm, 500 mg/m ³
Isopropyl alcohol	Not established	1.0mg/m ³ Copper and its compounds (Inhalable fraction)
Copper compound	Not established	

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	< 11

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: Ink tank containing cyan liquid ink with slight odor.
Combustible liquid and vapor.
Vapor or mist may cause respiratory tract and eye irritation.

Potential Health Effects and Symptoms:

Inhalation: No adverse effects are expected under intended use.
Over exposure to isopropyl alcohol, 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: Ingestion of isopropyl alcohol, ethylene glycol, diethylene glycol and/or glycerin may cause nausea, drowsiness, dizziness, vomiting, abdominal pain, headache and dullness.

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

Skin: May cause mild irritation and no sensitization 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.

- 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 persist, 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:

 - Flash Point(°C): 57.0 (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(USA) , "Not-flammable" under FHSA(USA) and 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 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.
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.
Keep out of the reach of children.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: Not established for this ink.
(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 odor
pH:	9.5-10.5
Boiling Point/Range(°C):	Not available
Melting Point/Range(°C):	Not available
Decomposition Temperature(°C):	Not available
Flash Point(°C):	57.0 (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(USA) , "Not-flammable" under FHSA(USA) and 88/379/EEC(EU).
Autoflammability:	None
Explosive Properties:	None
Oxidizing Properties:	None
Vapor Pressure:	Not available
Vapor Density:	Not available
Density / Specific Gravity:	Not available
Water Solubility:	Miscible
Fat Solubility:	Not available
Partition Coefficient (n-Octanol/Water):	Not available
Percent Volatile:	60-80 %
Evaporation Rate:	Not available

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable Unstable
 Conditions to Avoid: None

Materials to Avoid: Acids, bases, oxidizing materials and reducing agents.

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: Not available

Ingestion: Estimated LD₅₀ > 2500 mg/kg, 0/6 mortalities at 2000 mg/kg (rat)
 OECD Guidelines No.423 "Acute Oral Toxicity - Acute Toxic Class Method"
 Commission Directive 96/54/EC Method B1 tris

Eye: Minimal irritant, Maximum Group Mean Score = 5.3 Class 3 (rabbit)
 OECD Guidelines No.405 "Acute Eye Irritation/Corrosion"
 Commission Directive 92/69/EEC Method B5

Skin: Mild irritant, Primary Irritation Index = 1.8 (rabbit)
 OECD Guidelines No.404 "Acute Dermal Irritation/Corrosion"
 Commission Directive 92/69/EEC Method B4

Sensitization: Non sensitizer, Sensitization rate = 0% (0/9) (guinea pig)
 OECD Guidelines No.406 "Skin sensitisation"
 Commission Directive 96/54/EC Method B6

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

Reproductive Toxicity: Not available

SECTION 11 TOXICOLOGICAL INFORMATION - Continued

Carcinogenicity: No component of this ink is listed as human carcinogens or potential carcinogens in IARC Monographs, NTP, OSHA(USA) 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

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)2037/2000: Not regulated

(EEC)2455/92: Not regulated

Others: None

USA Information:

Information on the Label under FHSA:

Signal Word: Not required
Hazard warning: Not required

Safety Advice: Not required

Hazardous Component(s): (Not obligatory)
Glycerin (56-81-5) < 9% Ethylene glycol (107-21-1) < 6%
Diethylene glycol (111-46-6) < 4% Isopropyl alcohol (67-63-0) < 3% Copper compound < 2%

SARA Title III §313:

Chemical Name	Weight %
Ethylene glycol (107-21-1)	< 6
Copper compound	< 2
As Copper metal	< 0.1

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
- EU Regulation (EC)2037/2000, (EEC)2455/92

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 and 2000/39/EC.
- "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).
- "OSHA HCS" stands for Occupational Safety and Health Act, Hazard Communication Standard.
- "FHSA" stands for Federal Hazardous Substances Act.

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