

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

Product Name: Canon Ink Tank BCI-24C / Canon Ink Tank BCI-24 Colour Twin Pack

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

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Revised: 30 November, 2001

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 (Contained in Cyan and Magenta ink)	107-21-1	2 - 6	Xn	R22
Diethylene glycol	111-46-6	2 - 6	Xn	R22
Isopropyl alcohol	67-63-0	1 - 3	Xi	R36, 67
Copper compound (Contained only in Cyan ink)	Not specified in DFG MAK list	1 - 5	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
Ethylene glycol (Contained in Cyan and Magenta ink)	Not established	(aerosol) Ceiling = 100 mg/m ³
Diethylene glycol	Not established	Not established
Isopropyl alcohol	TWA = 400 ppm, 980 mg/m ³	TWA = 400 ppm, 983 mg/m ³
Copper compound (Contained only in Cyan ink)	Not established	STEL = 500 ppm, 1230 mg/m ³ Not established

Chemical Name	EU ILV	DFG MAK
Glycerin	Not established	Not established
Ethylene glycol (Contained in Cyan and Magenta ink)	TWA = 20 ppm, 52 mg/m ³ STEL = 40 ppm, 104 mg/m ³	10 ppm, 26 mg/m ³
Diethylene glycol	Not established	10 ppm, 44 mg/m ³
Isopropyl alcohol	Not established	200 ppm, 500 mg/m ³
Copper compound (Contained only in Cyan ink)	Not established	Copper and its compounds Inhalable fraction 1.0mg/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: A set of three colors ink tank. (Cyan, Magenta and Yellow)
All the ink is liquid mixture 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 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, dullness, diarrhea and sore throat.
- Eye:** Cyan and Yellow : May cause minimal irritation based on the animal test data of these ink.
Magenta : May cause minimal irritation based on the animal test data of similar composition ink.
(See SECTION 11)
- Skin:** Cyan and Yellow: May cause mild irritation and no sensitization based on the animal test data of these ink.
Magenta: May cause mild 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 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): Estimate 55.0-56.0 (Tag. c.c. Do not sustain combustion.)

Flammable(Explosive) Limits: Not available

Autoignition Temperature(°C): Not available

Flammability: Classified as "combustible liquid" under OSHA-HCS(USA). Not classified as "flammable" or "combustible" under FHSA(USA). Not Classified as "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 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 usual 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.
Keep out of the reach of children.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: Not established for these 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, Magenta and Yellow liquid
Odor:	Slight odor
pH:	7.0-10.5
Boiling Point/Range(°C):	Not available
Melting Point/Range(°C):	Not available
Decomposition Temperature(°C):	Not available
Flash Point(°C):	Estimate 55.0-56.0 (Tag. c.c. Do not sustain combustion.)
Flammable (Explosive) Limits:	Not available
Autoignition Temperature(°C):	Not available
Flammability:	Classified as "combustible liquid" under OSHA-HCS(USA). Not classified as "flammable" or "combustible" under FHSA(USA). Not Classified as "flammable" under 88/379/EEC(EU).
Autoflammability:	None
Explosive Properties:	None
Oxidizing Properties:	None
Vapor Pressure:	Not available
Vapor Density:	Not available
Density / Specific Gravity:	1.04-1.08
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: Cyan: Estimated LD₅₀ > 2500 mg/kg, 0/6 mortalities at 2000 mg/kg (rat)
 Magenta: Data of similar composition ink: Estimated LD₅₀ > 2500 mg/kg (rat)
 OECD Guidelines No.423 / Commission Directive 96/54/EC Method B1 tris
 Yellow: Not available

Eye: Cyan: Minimal irritant, Maximum Group Mean Score = 6.0 Class 3 (rabbit)
 Magenta: Data of similar composition ink : Minimal irritant (rabbit)
 Yellow: Minimal irritant, Maximum Group Mean Score = 4.7 Class 3 (rabbit)
 OECD Guidelines No.405 / Commission Directive 92/69/EEC Method B5

Skin: Cyan: Mild irritant, Primary Irritation Index =1.8 (rabbit)
 Magenta: Data of similar composition ink: Mild irritant (rabbit)
 Yellow: Mild irritant, Primary Irritation Index = 0.2 (rabbit)
 OECD Guidelines No.404 / Commission Directive 92/69/EEC Method B4

Sensitization: Cyan and Yellow: Non sensitizer, Sensitization rate = 0% (0/10) (guinea pig)
 Magenta: Data of similar composition ink : Non sensitizer (guinea pig)
 OECD Guidelines No.406 / Commission Directive 96/54/EC Method B6

Mutagenicity: Ames test:
 Cyan, Magenta and Yellow: Negative (test strains: *S.typhimurium* & *E.Coli*)
 Chromosome aberration test:
 Magenta: Negative (test strains: *Human peripheral blood lymphocytes*)

Reproductive Toxicity: Not available

SECTION 11 TOXICOLOGICAL INFORMATION - Continued

Carcinogenicity: No component of these 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) 5 - 10 % Ethylene glycol (107-21-1) 2 - 6 % (Contained in Cyan and Magenta ink)
Diethylene glycol (111-46-6) 2 - 6 % Isopropyl alcohol (67-63-0) 1 - 3 %
Copper compound 1 - 5 % (Contained only in Cyan ink)

SARA Title III §313:

Chemical Name	Weight %
Ethylene glycol (107-21-1) (Contained in Cyan and Magenta ink)	2 - 6
Copper compound (Contained only in Cyan ink) (as Cu)	1 - 5 < 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
- 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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