

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

Product Name: Ink Tank BCI-3eBK 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: 14 September, 2005

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)

Chemical Name	CAS #	Weight %	EU Symbol	EU R-Phrase
Glycerin	56-81-5	< 8	None	None
Diethylene glycol	111-46-6	< 6	Xn	R22
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	
Diethylene glycol	Not established		Not established	
Chemical Name	EU ILV		DFG MAK	
Glycerin	Not established		Not established	
Diethylene glycol	Not established		TWA = 10 ppm, 44 mg/m ³	

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS - Continued

Carcinogen

Chemical Name	CAS #	Reference
None		

Other Ingredient(s)

Chemical/Generic Name	Weight %
Water	65-85
Triol	< 8

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: Ink tank containing black liquid ink with slight odor. Mist may cause physical irritation.

Potential Health Effects and Symptoms:

Inhalation: No adverse effects are expected under intended use. Over exposure to 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 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 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 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 : None (Open cup)

Flammable(Explosive) Limits: Not available

Autoignition Temperature(°C): Not available

Flammability: Neither flammable nor combustible.

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

Storage: Keep in a cool and dry place.
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:	Black liquid
Odor:	Slight odor
pH:	7.0-9.0
Boiling Point/Range(°C):	Not available
Melting Point/Range(°C):	Not available
Decomposition Temperature(°C):	Not available
Flash Point(°C):	Estimate : None (Open cup)
Flammable (Explosive) Limits:	Not available
Autoignition Temperature(°C):	Not available
Flammability:	Neither flammable nor combustible.
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:	65-85 %
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: Not available

Eye: Data of similar composition ink :
 Minimal irritant, Maximum Group Mean Score = 4.0 Class 3 (rabbit)
 OECD Guidelines No.405 "Acute Eye Irritation/Corrosion"
 Commission Directive 92/69/EEC Method B5

Skin: Data of similar composition ink :
 Non irritant, Primary Irritation Index = 0.0 (rabbit)
 OECD Guidelines No.404 "Acute Dermal Irritation/Corrosion"
 Commission Directive 92/69/EEC Method B4

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

Mutagenicity: Data of similar composition ink :
 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 & Not required
Indication: _____R-Phrase: Not required
_____S-Phrase: Not required
_____Dangerous None
Component(s): _____**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 (Not obligatory)
Component(s): Glycerin (56-81-5) < 8%
Diethylene glycol (111-46-6) < 6%**SARA Title III §313:**

Chemical Name	Weight %
None	

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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