

MATERIAL SAFETY DATA SHEET

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

Product Name: Canon Ink Tank PGI-9PBK
Product Code: 1034B
Company Name: Canon Europe 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	5 - 10	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
Carbon black	1333-86-4 / 215-609-9	1 - 5	None / None	TWA = 3.5 mg/m ³	TWA = 3.5 mg/m ³	Not established	Not established
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 - 5	Xi / R41	Not established	Not established	Not established	Not established
Glycol	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
Lactam	Confidential	5 - 10	None / None	Not established	Not established	Not established	Not established
Water	7732-18-5 / 231-791-2	60 - 80	None / None	Not established	Not established	Not established	Not established

< Carcinogen >

Chemical Name	CAS#	Reference
Carbon Black	1333-86-4	IARC : Group 2B. NTP; OSHA; Annex I to 67/548/EEC : Not listed.

Except carbon black, no component of this ink is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

Ink tank containing black liquid ink with slight odor.

Potential Health Effects and Symptoms:

Inhalation:

No adverse effects are expected under intended use.
Over exposure to vapor or mist may cause respiratory tract irritation, cough, dizziness, drowsiness, headache and nausea.

Ingestion:

May cause abdominal pain, diarrhea, dizziness, drowsiness, dullness, headache, nausea and vomiting.

Eye:

May cause mild irritation. (See SECTION 11)

Skin:

Neither irritation nor sensitization is expected. (See SECTION 11)

Chronic Effects:

No adverse effects are expected under intended use of this product.

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 lukewarm, gently flowing 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, NO_x and SO_x

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:

Use with adequate ventilation.

Avoid contact with skin, eyes and clothing.

In case of contact, wash out the contaminated area immediately.

Storage:

Keep in a cool and dry place.

Protect from sunlight.

Keep out of the reach of children.

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. (See also 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:	Black liquid
Odor:	Slight odor
pH:	8 - 9
Boiling Point/Range(°C):	Not available
Melting Point/Range(°C):	Not available
Decomposition Temperature(°C):	Not available
Flash Point(°C):	Estimate: None
Flammable (Explosive) Limits:	Not available
Autoignition Temperature(°C):	Not available
Flammability:	Neither flammable nor combustible.
Explosive Properties:	Estimate: None
Oxidizing Properties:	Estimate: None
Vapor Pressure :	Not available
Vapor Density :	Not available
Density / Specific Gravity:	1.0 - 1.1
Water Solubility :	Miscible
Fat Solubility :	Not available
Partition Coefficient (n-Octanol/Water):	Not available
Percent Volatile (%):	60 - 80
Evaporation Rate:	Not available
Viscosity (mPa s):	1 - 5

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 SO _x
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 (2002) , 2004/73/EC Method B5

Skin:

[Data of similar composition ink]

Non-irritant (rabbit)

OECD Guidelines No.404 (2002) , 2004/73/EC Method B4

Sensitization:

[Data of similar composition ink]

Non-sensitizer (mouse)

OECD Guidelines No.429 (2002) , 2004/73/EC Method B42

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

Reproductive Toxicity:Not available

Carcinogenicity:

The IARC evaluated carbon black, as a Group 2B carcinogen, for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposure to powdered carbon black at levels that induce particle overload of the lung. However, the amount of inhalation exposure to powdered carbon black is negligible under intended use of this product.

Others:Not available

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 CONSIDERATIONS

Method of Disposal:
 Disposal should 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):
 Not required

Special Precautions under 1999/45/EC Annex V:
 Not required

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

76/769/EEC: Not regulated

(EC)2037/2000: Not regulated

(EC)304/2003: 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 required

SARA Title III §313:

Chemical Name	Weight %
"Ethylene glycol" (107-21-1)	5 - 10

California Proposition 65:

Chemical Name	Weight %
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>

R22: Harmful if swallowed.

R41: Risk of serious damage to eyes.

<Revised information from the previous version>

Section 15

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, (EC)304/2003
- 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, 2000/39/EC and 2006/15/EC.
DFG MAK: MAK(Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft.
TWA: Time Weighted Average.
STEL: Short Term Exposure Limit.
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.

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