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**SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product Name:** Canon Ink Tank PFI-301BK**Product Code:** 1486B**Company Name:** Canon Inc.**Address:** 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan**Use of the Product:** Ink for Ink Jet Printer

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**SECTION 2 HAZARDS IDENTIFICATION****EU Classification:**Not classified as dangerous.

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**Emergency Overview:**

Ink tank containing black liquid ink with slight odor.

Vapor or mist may cause respiratory tract and eye irritation.

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**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.

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

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**Eye:**May cause minimal irritation. (See SECTION 11)

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**Skin:**May cause moderate irritation and no sensitization. (See SECTION 11)

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**Chronic Effects:**No adverse effects are expected under intended use of this product.

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**Medical Conditions Generally known to be Aggravated by Exposure:**Not identified

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**SECTION 3 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 <sup>3</sup>	(as mist) TWA = 10 mg/m <sup>3</sup>	Not established	Not established
Ethylene urea	120-93-4 / 204-436-4	5 - 10	Xi / R36	Respirable fraction TWA = 5 mg/m <sup>3</sup> Not established	Not established	Not established	Not established
Carbon black	1333-86-4 / 215-609-9	1 - 5	None / None	TWA = 3.5 mg/m <sup>3</sup>	TWA = 3.5 mg/m <sup>3</sup>	Not established	Not established
Triethylene glycol	112-27-6 / 203-953-2	1 - 5	None / None	Not established	Not established	Not established	1000 mg/m <sup>3</sup>
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; Part 3 of Annex VI to Regulation (EC) No 1272/2008: 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 Part 3 of Annex VI to Regulation (EC) No 1272/2008.

**< PBT substance and vPvB substance >**

No component of this ink is a PBT or vPvB substance under Regulation (EC) No 1907/2006.

**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:**

CO<sub>2</sub>, 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, CO<sub>2</sub>, NO<sub>x</sub> and SO<sub>x</sub>

**Other Properties:**

None

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:**

Avoid contact with skin, eyes and clothing.

Avoid breathing vapor and mist.

**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 and mist.

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 3)

**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):** None (Estimate)

**Flammable (Explosive) Limits:** Not available

**Autoignition Temperature(°C):** Not available

**Flammability:** Neither flammable nor combustible.

**Explosive Properties:** None (Estimate)

**Oxidizing Properties:** None (Estimate)

**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:**  Stable  Unstable

**Conditions to Avoid:** None

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

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>, NO<sub>x</sub> and SO<sub>x</sub>

**Hazardous Polymerization:**  May Occur  Will Not Occur

**Conditions to Avoid:** None

**SECTION 11 TOXICOLOGICAL INFORMATION**

**Acute Toxicity:**

**Inhalation:**

Not available

**Ingestion:**

Not available

**Eye:**

Minimal irritant (rabbit)

OECD Guidelines No. 405 (1987), 92/69/EEC Method B5

**Skin:**

Moderate irritant (rabbit)

OECD Guidelines No. 404 (1992), 92/69/EEC Method B4

**Sensitization:**

Non-sensitizer (guinea pig)

OECD Guidelines No. 406 (1992), 96/54/EC Method B6

**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:**  
Safety data sheet available for professional user on request.

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

**(EC) No 1907/2006 Annex XVII (Restrictions):** Not regulated

**(EC) No 2037/2000:** Not regulated

**(EC) No 689/2008:** Not regulated

**Others:** None

## &lt; USA Information &gt;

**Information on the Label under OSHA HCS:****Signal Word:** Not required**Hazard warning:**

VAPOR OR MIST MAY CAUSE RESPIRATORY TRACT AND EYE IRRITATION.

**Safety Advice:**

Not required

**Hazardous Component(s):**

Not required

**SARA Title III §313:****Chemical Name**

Weight %

None

**California Proposition 65:****Chemical Name**

Weight %

None

## &lt; Canada Information &gt;

**WHMIS Controlled Product:** Not applicable (Manufactured article)

## &lt; Australia Information &gt;

**Statement of Hazardous Nature:** Not classified as hazardous according to criteria of NOHSC.**SECTION 16 OTHER INFORMATION**

&lt;R phrase list&gt;

R36: Irritating to eyes.

&lt;Revised information from the previous version&gt;

Entirely revised

&lt;Term explanation&gt;

Estimate: Estimate based on data of similar ink or the ingredient(s).

**Literature References:**

- 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) No 2037/2000, (EC) No 689/2008, (EC) No 1907/2006, (EC) No 1272/2008
- 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.
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative

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