

**SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product Identifier:**

**Product Name:** Canon FINE Cartridge PG-545XL

**Product Code:** 8286B

**Relevant Identified Uses:** Ink for Ink Jet Printer

**Details of Supplier of Safety Data Sheet:**

**Supplier:** Canon Europa NV

**Address:** Bovenkerkerweg 59, 1185XB Amstelveen, The Netherlands

**Telephone Number:** +31 20 5458545, +31 20 5458222

**E-mail Address:** www.canon-europe.com, ceu-Reach@canon-europe.com

**Emergency Telephone Number:** DENMARK: +45 82 12 12 12; GERMANY: +49 30 19240, +49 761 19240; BELGIUM & NETHERLANDS: +32 70 245 245; FRANCE: +33 1 40 05 48 48; UK only 0845 4647; FINLAND: +358 9 471 977; SWEDEN: +46 8 33 12 31

**Manufacturer:** Canon Inc.

**Address:** 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

**SECTION 2 HAZARDS IDENTIFICATION**

**Emergency Overview:**

Ink cartridge containing black liquid ink with slight odor.

**US Regulatory Status under FHSA:**

Not classified as hazardous.

**US Label Elements under FHSA:**

**Signal Word:** Not required

**Hazard Warning:** Not required

**Safety Advice:** Not required

**Hazardous Component:** Not required

**EU Classification under 1999/45/EC:**

Not classified as dangerous.

**EU Label Elements under 1999/45/EC:**

**Symbol & Indication:** Not required

**R-Phrase:** Not required

**S-Phrase:** Not required

**Dangerous Component:** Not required

**Applicable Label Elements in accordance with Annex V to 1999/45/EC:**

Not required

**Other Hazards:**

None

**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance or Mixture:** Mixture

**Ingredient(s):**

Chemical Name/ Generic Name	CAS #/ EC #	Concentration/ Concentration Range (%)	EU Classification according to 67/548/EEC		EU Classification according to (EC) No 1272/2008		Note to Other Hazards* <sup>2</sup>
			Symbol/ Indication of Danger	R-Phrase* <sup>1</sup>	Hazard Class/ Category Code	Hazard Statement* <sup>1</sup>	
Glycerin	56-81-5 / 200-289-5	5 - 10	None	None	None	None	(1)
Glycol	Confidential	5 - 10	None	None	None	None	
Lactam	Confidential	5 - 10	None	None	None	None	
Water	7732-18-5 / 231-791-2	60 - 80	None	None	None	None	

\*1 Full texts of R-phrase(s) and Hazard statement(s) are listed in SECTION 16

\*2 The following substance(s) is (are) marked with (1), (2) and/or (3)

- (1) Substance for which Occupational Exposure Limit(s) is (are) established (See SECTION 8)
- (2) PBT substance or vPvB substance under Regulation (EC) No 1907/2006
- (3) Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 1907/2006

**Carcinogen(s):**

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.

**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.

**Skin:**

Wash with water and soap or mild detergent.

If irritation persists, obtain medical advice.

**Eye:**

Immediately flush with lukewarm, gently flowing water for 5 minutes or until the chemical is removed.

If irritation persists, obtain medical advice immediately.

**Most Important Symptoms and Effects, both Acute and Delayed:**

**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.

**Skin:**

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

**Eye:**

May cause minimal irritation. (See SECTION 11)

**Chronic Effects:**

Not identified

**Indication of Any Immediate Medical Attention and Special Treatment Needed:**

None

**SECTION 5 FIRE FIGHTING MEASURES**

**Extinguishing Media:**

**Suitable Extinguishing Media:**

CO<sub>2</sub>, water, foam or dry chemicals

**Unsuitable Extinguishing Media:**

None

**Special Hazards:**

None

**Hazardous Combustion Products:**

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

**Advice for Fire-fighters:**

None

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Avoid contact with skin, eyes and clothing.

**Environmental Precautions:**

Do not release to sewer, surface water or ground water.

**Methods and Material for Containment and Cleaning Up:**

Wipe off with wet cloth or paper.

**SECTION 7 HANDLING AND STORAGE**

**Precautions for Safe Handling:**

- Use with adequate ventilation.
- Avoid contact with skin, eyes and clothing.
- In case of contact, wash out the contaminated area immediately.

**Conditions for Safe Storage, Including Any Incompatibilities:**

- Keep in a cool and dry place.
- Protect from sunlight.
- Keep out of the reach of children.

**Specific End Uses:**

- Ink for Ink Jet Printer.
- For more information, please refer to the instruction of this product.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control Parameters:**

	USA OSHA PEL	ACGIH TLV	EU OEL
Product (Ink)	Not established	Not established	Not established
Glycerin	Glycerin mist: TWA 15 mg/m <sup>3</sup> (Total dust) TWA 5 mg/m <sup>3</sup> (Respirable fraction)	Glycerin mist: TWA 10 mg/m <sup>3</sup>	Not established

**Exposure Controls:**

**Engineering Controls:** No special ventilation equipment is needed under intended use of this product.

**Individual Protection Measures:**

- Eye/Face Protection:**  Required  Not Required
- Skin Protection:**  Required  Not Required
- Respiratory Protection:**  Required  Not Required

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Information on Basic Physical and Chemical Properties:**

<b>Appearance:</b>	<u>Black liquid</u>
<b>Odor:</b>	<u>Slight odor</u>
<b>pH:</b>	<u>7 - 9</u>
<b>Melting Point/Freezing Point (°C):</b>	<u>Not available</u>
<b>Initial Boiling Point and Boiling Range (°C):</b>	<u>Not available</u>
<b>Flash Point(°C):</b>	<u>None (Estimate)</u>
<b>Evaporation Rate:</b>	<u>Not available</u>
<b>Flammability:</b>	<u>Neither flammable nor combustible.</u>
<b>Upper/Lower Flammable or Explosive Limits:</b>	<u>None (Estimate)</u>
<b>Vapor Pressure :</b>	<u>Not available</u>
<b>Vapor Density :</b>	<u>Not available</u>
<b>Relative Density:</b>	<u>1.0 - 1.1</u>
<b>Water Solubility :</b>	<u>Miscible</u>
<b>Fat Solubility :</b>	<u>Not available</u>
<b>Partition Coefficient (n-Octanol/Water):</b>	<u>Not available</u>
<b>Auto-ignition Temperature (°C):</b>	<u>None (Estimate)</u>
<b>Decomposition Temperature(°C):</b>	<u>Not available</u>
<b>Viscosity (mPa s):</b>	<u>1 - 5</u>
<b>Explosive Properties:</b>	<u>None (Estimate)</u>
<b>Oxidizing Properties:</b>	<u>None (Estimate)</u>
<b>Other Information:</b>	<u>Not available</u>

**SECTION 10 STABILITY AND REACTIVITY**

<b>Reactivity:</b>	<u>None</u>
<b>Chemical Stability:</b>	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
<b>Possibility of Hazardous Reactions:</b>	<u>None</u>
<b>Conditions to Avoid:</b>	<u>None</u>
<b>Incompatible Materials:</b>	<u>Acids, bases, oxidizing materials and reducing agents</u>
<b>Hazardous Decomposition Products:</b>	<u>CO, CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>x</sub> and Ammonia</u>

**SECTION 11 TOXICOLOGICAL INFORMATION****Information on Toxicological Effects:****Acute Toxicity:****Inhalation:**

Not available

**Ingestion:**

Not available

**Corrosivity/Irritation:****Skin:**

Non-irritant (rabbit) (Estimate)

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

**Eye:**

Minimal irritant (rabbit) (Estimate)

OECD Guidelines No. 405 (2002), 2004/73/EC Method B5

**Sensitization:****Skin:**

Non-sensitizer (mouse) (Estimate)

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

**Repeated Dose Toxicity:**

Not available

**Carcinogenicity:**

Not available

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

Not available

**Other Information:**

Not available

**SECTION 12 ECOLOGICAL INFORMATION**

**Toxicity:** Fish, Acute toxicity test:  
 96-Hour LC50 > 100 mg/L (*Oryzias latipes*) (Estimate)  
 OECD Guidelines No. 203 (1992)  
 Daphnia sp., Acute immobilisation test:  
 48-Hour EC50 > 100 mg/L (*Daphnia magna*) (Estimate)  
 OECD Guidelines No. 202 (2004)  
 Freshwater Alga and Cyanobacteria, Growth inhibition test:  
 EC50 > 100 mg/L (0-72hr), NOEC = 100 mg/L (*Desmodesmus subspicatus*) (Estimate)  
 OECD Guidelines No. 201 (2006), (EC) No 440/2008 Method C.3  
 NOEC: No Observed Effect Concentration

---

**Persistence and Degradability:** Not available

---

**Bioaccumulative Potential:** Not available

---

**Mobility in Soil:** Not available

---

**Results of PBT and vPvB Assessment:** No results that the component(s) of this ink meet(s) the PBT or vPvB criteria under Regulation (EC) No 1907/2006.

---

**Other Adverse Effects:** Not available

**SECTION 13 DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods:**  
 Disposal should be subject to federal, state and local laws.

**SECTION 14 TRANSPORT INFORMATION**

**UN Number:** None

---

**UN Proper Shipping Name:** None

---

**Transport Hazard Class:** None

---

**Packing Group:** None

---

**Environmental Hazards:** Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.

---

**Special Precautions for User:** None

**SECTION 15 REGULATORY INFORMATION**

< USA Information >  
**SARA Title III §313:**  

Chemical Name	Weight %
None	

  
**California Proposition 65:**  

Chemical Name	Weight %
None	

  
 < EU Information >  
**Safety, Health and Environmental Regulations/Legislation:**  
**(EC) No 1907/2006: Authorisation:** Not regulated  
**Restriction:** Not regulated  
**(EC) No 1005/2009:** Not regulated  
**(EC) No 850/2004:** Not regulated  
**(EC) No 689/2008:** Not regulated  
**Others:** None  
**Chemical Safety Assessment under (EC) No 1907/2006:** Not required  
 < Canada Information >  
**WHMIS Controlled Product:** This product will not be shipped to Canada.  
 < Australia Information >  
**Statement of Hazardous Nature:** This product will not be shipped to Australia.

**SECTION 16 OTHER INFORMATION**

<EU SDS information>

This safety data sheet (SDS) is supplied voluntarily.

<Term explanation>

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

**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
- EU Directive 1999/45/EC
- EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EC) No 850/2004, (EC) No 689/2008
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substance [NOHSC:1008]

**Abbreviations:**

- OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA)
- FHSA: Federal Hazardous Substances Act (USA)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- SVHC: Substances of Very High Concern
- IARC: International Agency for Research on Cancer
- NTP: National Toxicology Program (USA)
- 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 OEL: Occupational exposure limits at Community level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC and 2009/161/EU
- TWA: Time Weighted Average
- STEL: Short Term Exposure Limit
- WHMIS: Workplace Hazardous Materials Information System
- NOHSC: National Occupational Health and Safety Commission

The information, data and recommendations set forth herein (the "Information") are presented in good faith and are believed to be correct as of the date hereof. The company/manufacturer makes no representations as to the completeness or accuracy of the Information and disclaims responsibility for any reliance thereon. The Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal, state and local laws and regulations. In no event will the company/manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO THE INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.