

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

Product Identifier:

Product Name: Canon Ink Tank PFI-102C

Product Code: 0896B

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 tank containing cyan liquid ink with slight odor.

US Regulatory Status under OSHA HCS:

Classified as hazardous.

US Label Elements under OSHA HCS:

Signal Word: Not required

Hazard Warning: COMBUSTIBLE LIQUID AND VAPOR.
VAPOR OR MIST MAY CAUSE RESPIRATORY TRACT AND EYE IRRITATION.

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:

Safety data sheet available for professional user on request.

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* ²
			Symbol/ Indication of Danger	R-Phrase* ¹	Hazard Class/ Category Code	Hazard Statement* ¹	
Ethylene urea	120-93-4 / 204-436-4	5 - 10	Xi / Irritant	R36	Eye Irrit. 2	H319	
Substituted phthalocyanine	Confidential	5 - 10	Xi / Irritant	R41 R52/53	Eye Dam. 1 Aquatic Chronic 3	H318 H412	
Isopropyl alcohol	67-63-0 / 200-661-7	1 - 5	F / Highly flammable Xi / Irritant	R11 R36 R67	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336	(1)
Magnesium nitrate	10377-60-3 / 233-826-7	1 - 5	None	None	None	None	
Glycol	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):

Chemical Name	CAS#	Reference
Magnesium nitrate	10377-60-3	IARC: Group 2A (Ingested nitrate or nitrite under conditions that result in endogenous nitrosation), NTP; OSHA; Part 3 of Annex VI to Regulation (EC) No 1272/2008: Not listed.

Except magnesium nitrate, 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, vomiting and cyanosis.

Skin:

May cause mild irritation and no sensitization. (See SECTION 11)

Eye:

May cause moderate irritation. (See SECTION 11)

Chronic Effects:

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

Indication of Any Immediate Medical Attention and Special Treatment Needed:

None

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media:

CO₂, water, foam or dry chemicals

Unsuitable Extinguishing Media:

None

Special Hazards:

None

Hazardous Combustion Products:

CO, CO₂, NO_x and SO_x

Advice for Fire-fighters:

None

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid contact with skin, eyes and clothing.

Avoid breathing vapor and mist.

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:

- 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.

Conditions for Safe Storage, Including Any Incompatibilities:

- Keep in a cool and dry place. Protect from sunlight.
- Keep away from heat and flame.
- 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
Isopropyl alcohol	TWA 400 ppm, 980 mg/m ³	TWA 200 ppm, 492 mg/m ³ STEL 400 ppm, 984 mg/m ³	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:

Appearance:	<u>Cyan liquid</u>
Odor:	<u>Slight odor</u>
pH:	<u>7 - 10</u>
Melting Point/Freezing Point (°C):	<u>Not available</u>
Initial Boiling Point and Boiling Range (°C):	<u>Not available</u>
Flash Point(°C):	<u>59.3 (Tag. Closed Cup. Combustion is not sustainable.)</u>
Evaporation Rate:	<u>Not available</u>
Flammability:	<u>Classified as "combustible liquid" under OSHA-HCS. Not classified as "flammable" or "combustible" under FHSA. Not classified as "flammable" under 1999/45/EC.</u>
Upper/Lower Flammable or Explosive Limits:	<u>Not available</u>
Vapor Pressure :	<u>Not available</u>
Vapor Density :	<u>Not available</u>
Relative Density:	<u>1.0 - 1.1</u>
Water Solubility :	<u>Miscible</u>
Fat Solubility :	<u>Not available</u>
Partition Coefficient (n-Octanol/Water):	<u>Not available</u>
Auto-ignition Temperature (°C):	<u>Not available</u>
Decomposition Temperature(°C):	<u>Not available</u>
Viscosity (mPa s):	<u>1 - 5</u>
Explosive Properties:	<u>None (Estimate)</u>
Oxidizing Properties:	<u>None (Estimate)</u>
Other Information:	<u>Not available</u>

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	<u>None</u>
Chemical Stability:	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
Possibility of Hazardous Reactions:	<u>None</u>
Conditions to Avoid:	<u>None</u>
Incompatible Materials:	<u>Acids, bases, oxidizing materials and reducing agents</u>
Hazardous Decomposition Products:	<u>CO, CO₂, NO_x and SO_x</u>

SECTION 11 TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:

Acute Toxicity:

Inhalation:

Not available

Ingestion:

Not available

Corrosivity/Irritation:

Skin:

Mild irritant (rabbit) (Estimate)

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

Eye:

Moderately irritating (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:

The IARC evaluated ingested nitrate as a Group 2A carcinogen, for which there is inadequate human evidence for nitrate in food or drinking-water and inadequate animal evidence for nitrate, but limited human evidence for nitrite in food, limited animal evidence for nitrite and sufficient animal evidence for nitrite in combination with amines or amides. A part of ingested nitrate is changed to nitrite in the body.

However, no ingestion of nitrate is expected under intended use of this product.

Mutagenicity:

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

Toxicity for Reproduction:

Not available

Other Information:

Ingested nitrate may cause effects on the blood, resulting in formation of methemoglobin. However, no ingestion of nitrate at a level which causes such adverse effects is expected under intended use of this product.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity: Not available

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:

<u>Chemical Name</u>	<u>Weight %</u>
<u>"Copper Compounds" (as Cu)</u>	<u>5 - 10 (< 0.35)</u>
<u>"Nitrate compounds"</u>	<u>1 - 5</u>

California Proposition 65:

<u>Chemical Name</u>	<u>Weight %</u>
<u>None</u>	

< 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: Not applicable (Manufactured article)

< Australia Information >

Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC.

SECTION 16 OTHER INFORMATION

<Information for EU customers>

This safety data sheet (SDS) is not for the professional user described under Directive 1999/45/EC. (See SECTION 2)

<EU R-phrase according to 67/548/EEC>

- R11: Highly flammable.
- R36: Irritating to eyes.
- R41: Risk of serious damage to eyes.
- R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R67: Vapours may cause drowsiness and dizziness.

<EU Hazard statement according to (EC) No 1272/2008>

- H225: Highly flammable liquid and vapour.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness and dizziness.
- H412: Harmful to aquatic life with long lasting effects.

<Revised information from the previous version>

Entirely revised

<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

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