
SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product Name:** Canon Ink Tank PFI-102C**Product Code:** 0896B**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

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

Emergency Overview:

Ink tank containing cyan liquid ink with slight odor.

Combustible liquid and vapor. Vapor or mist may cause respiratory tract and eye irritation.

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, vomiting and cyanosis.

Eye:May cause moderate irritation. (See SECTION 11)

Skin:May cause mild irritation and no sensitization. (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 3 COMPOSITION/INFORMATION ON INGREDIENTS

< Ingredient(s) >

Chemical Name / Generic Name	CAS # / EC #	Weight %	EU Symbol/ R-Phrase	USA OSHA PEL	ACGIH TLV	EU OEL	DFG MAK
Ethylene urea	120-93-4 / 204-436-4	5 - 10	Xi /R36	Not established	Not established	Not established	Not established
Substituted phthalocyanine	Confidential	5 - 10	Xi /R41 R52/53	Not established	Not established	Not established	Not established
Isopropyl alcohol	67-63-0 / 200-661-7	1 - 5	F /R11 Xi /R36 R67	TWA = 400 ppm, 980 mg/m ³	TWA = 200 ppm, 492 mg/m ³ STEL = 400 ppm, 984 mg/m ³	Not established	200 ppm, 500 mg/m ³
Polyethylene glycol	25322-68-3 / Not applicable	1 - 5	None /None	Not established	Not established	Not established	1000 mg/m ³
Magnesium nitrate	10377-60-3 / 233-826-7	1 - 5	None /None	Not established	Not established	Not established	Not established
Glycol	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
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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.

< 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:

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, NOx and SOx

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 away from heat and flame.

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: Cyan liquid

Odor: Slight odor

pH: 7 - 10

Boiling Point/Range(°C): Not available

Melting Point/Range(°C): Not available

Decomposition Temperature(°C): Not available

Flash Point(°C): 59.3 (Tag. Closed Cup. Combustion is not sustainable.)

Flammable (Explosive) Limits: Not available

Autoignition Temperature(°C): Not available

Flammability: Classified as "combustible liquid" under OSHA-HCS.
Not classified as "flammable" or "combustible" under FHSA.
Not classified as "flammable" under 1999/45/EC.

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, CO₂, NO_x and SO_x

Hazardous Polymerization: May Occur Will Not Occur

Conditions to Avoid: None

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:

Not available

Ingestion:

Not available

Eye:

Moderately irritating (rabbit) (Estimate)

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

Skin:

Mild irritant (rabbit) (Estimate)

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

Sensitization:

Non-sensitizer (mouse) (Estimate)

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 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.

Others:

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

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 1005/2009: Not regulated

(EC) No 689/2008: Not regulated

Others: None

< USA Information >

Information on the Label 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(s):

Not required

SARA Title III §313:

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

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

<Information for EU customers>

This safety data sheet (SDS) is not for the professional user described under Directive 1999/45/EC. (See SECTION 15)

<R phrase list>

- 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.

<Revised information from the previous version>

SECTION 2, 3, 11 and 15

<Term explanation>

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 1999/45/EC
- EU Regulation (EC) No 1005/2009, (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 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
- 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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