

MATERIAL SAFETY DATA SHEET

MSDS #: IC1655-0101

Product Code: 0895B

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

Product Name: Canon Ink Tank PFI-102BK
Product Code: 0895B
Company Name: Canon Europa N.V.
Address: Bovenkerkerweg 59-61, Amstelveen , 1185XB, 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 |
| Substituted naphthalene sulfonic acid | Confidential | 1 - 5 | Xi / R41 | Not established | Not established | Not established | Not established |
| Heterocyclic compound | 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 >

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.
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 and vomiting.

Eye:

May cause moderate irritation. (See SECTION 11)

Skin:

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

Chronic Effects:

Not identified

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.

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.

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 - 11 |
| 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:

Moderately irritating (rabbit)

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

Skin:

Mild irritant (rabbit)

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

Sensitization:

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:

Not available

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:

76/769/EEC: Not regulated

(EC)2037/2000: Not regulated

(EC)304/2003: Not regulated

Others: None

< USA Information >

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 % |
|------------------------------|----------|
| "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.

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 and 2000/39/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.

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/manufacture 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/manufacture 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.