Canon

MATERIAL SAFETY DATA SHEET

Pag MSDS #: IC166 Product Code: 1486B

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SECTION 1	IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE
	COMPANY/UNDERTAKING
Product Name:	Canon Ink Tank PFI-301BK
Product Code:	1486B
Company Name:	Canon Europa N.V.
Address:	Bovenkerkerweg 59-61, 1185 XB, Amstelveen, The Netherlands

Use of the Product: Ink for Ink Jet Printer

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

SECTION 2	COMI OBI	110101	INFORMATIC	JIN OIN IINGKE	DIENIS		
< 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
Carbon black	1333-86-4 / 215-609-9	1 - 5	None / None	$TWA = 3.5 \text{ mg/m}^3$	$TWA = 3.5 \text{ mg/m}^3$	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 > CAS# Reference **Chemical Name** Carbon black 1333-86-4 IARC : Group 2B. NTP; OSHA; Annex I to 67/548/EEC : 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 Annex I to Directive 67/548/EEC HAZARDS IDENTIFICATION **SECTION 3 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 minimal irritation. (See SECTION 11) Skin: May cause moderate 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 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.

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 Required

Skin Protection:

Not Required



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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):	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 R	EACTIVITY
Stability:	⊠ Stable □ Unstable
Conditions to Avoid:	None
Materials to Avoid:	Acids, bases, oxidizing materials and reducing agents
Hazardous Decomposition Products:	CO, CO ₂ , NOx and SOx
Hazardous Polymerization:	☐ May Occur ☑ Will Not Occur

Conditions to Avoid:

None



SECTION 11 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



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SECTION 12 E	ECOLO	GICAL INFORMATION				
Mobility:	Not av	vailable				
Persistence / Degradability:	Not av	Not available				
Bioaccumulation:	Not av	vailable				
Ecotoxicity:	Not av	vailable				
Other Adverse Effec	cts:	Not available				
Method of Disposal:	:	EAL CONSIDERATIONS				
SECTION 14 T	RANS	PORT INFORMATION				
UN #:	None					
UN Shipping Name:	None					
UN Classification:	None					
UN Packing Group:	None					
Marine Pollutant:	□ Ye ⊠ No					
Special Precautions:	None					
SECTION 15 R < EU Information >	REGUL	ATORY INFORMATION				
Information on the I	Label:					
Symbol & Indica	ation:	Not required				
R-Phrase:	-					
Not required						
S-Phrase:						
Not required Dangerous Com	nonent	(c).				
Not required	ponent	(3)•				
Special Precaution Not required	ons unc	der 1999/45/EC Annex V:				
Specific Provisions in	n Relati	ion to Protection of Man or the Environment:				
76/769/EEC:	Not re	gulated				
(EC)2037/2000:	Not re	gulated				
(EC)304/2003:	Not re	gulated				
Others:	None					

Canon		MSDS #:	IC1663-0101
	MATERIAL SAFETY DATA SHEET	Product Code:	1486E
< USA Information >			
Information on the Label under	OSHA HCS:		
Signal Word: Not required			
Hazard warning: VAPOR OR MIST MAY C.	AUSE RESPIRATORY TRACT AND EYE IRRITA	ATION.	
Safety Advice: Not required			
Hazardous Component(s): Not required			
SARA Title III §313:			
Chemical Name		Weight %	
None			
California Proposition 65:			
Chemical Name		Weight %	
None			
< Canada Information > WHMIS Controlled Product:	Not applicable (Manufactured article)		
< Australia Information > Statement of Hazardous Natu	Ire: Not classified as hazardous according to criteria	of NOHSC.	
SECTION 16 OTHER INFO	UNIVIATION		

None

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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, 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.

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