Canon

MATERIAL SAFETY DATA SHEET

MSDS #: IC1106-0101
Product Code: 0884A / H11-6371

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

Product Name: Canon BJ FAX Cartridge BX-3

Product Code: 0884A / H11-6371

Manufacturer: Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Phone # 03-3758-2111

Supplier: Canon USA, Inc., One Canon Plaza, Lake Success, NY, 11042, USA

Phone # : 1-800-OK-CANON, 24 Hr. Emergency CHEMTREC # 1-800-424-9300

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	2 - 6	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
Thiodiglycol	111-48-8 / 203-874-3	2 - 6	Xi / R36	Not established	Not established	Not established	Not established
Isopropyl alcohol	67-63-0 / 200-661-7	2 - 6	F / R11 Xi / R36 R67	TWA = 400 ppm, 980 mg/m^3	TWA = 400 ppm, 983 mg/m^3 STEL = 500 ppm, 1230 mg/m^3	Not established	200 ppm, 500 mg/m^3
Ammonia derivative	Confidential	2 - 6	None / None	Not established	Not established	Not established	Not established
Water	7732-18-5 / 231-791-2	65 - 85	None / None	Not established	Not established	Not established	Not established

< Carcinogen >

Chemical Name	CAS #	Reference
None		

SECTION 3 HAZARDS IDENTIFICATION

EU Classification:

Not classified as dangerous.

Emergency Overview:

Ink cartridge containing black liquid ink with slight odor.

Potential Health Effects and Symptoms:

Inhalation:

No adverse effects are expected under intended use.
Glycerin mist may cause physical irritation and difficulty breathing.
Over exposure to isopropyl alcohol may cause headache, nausea, dizziness, vomiting, drowsiness, cough and sore throat.

Ingestion:

Ingestion of glycerin and/or isopropyl alcohol may cause nausea, drowsiness, dizziness, vomiting, abdominal pain, headache, sore throat and dullness.

Eye:

May be no irritation based on the animal test data of this ink. (See SECTION 11)

Skin:

May cause mild irritation and no sensitization based on the animal test data of this ink. (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 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:
CO_2, 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, CO_2 , NOx and SOx

Other Properties:
None

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Avoid contact with skin, eyes and clothing.
Avoid breathing vapor or 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 or mist.
Avoid contact with skin, eyes and clothing. When contact, wash out immediately.
Use with adequate ventilation.

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. (Also refer to 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

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black liquid
Odor:	Slight odor
pH:	6.5 - 8.0
Boiling Point/Range(°C):	Not available
Melting Point/Range(°C):	Not available
Decomposition Temperature(°C):	Not available
Flash Point(°C):	48.5 (Tag.closed cup. Do not sustain combustion.)
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
Oxidizing Properties:	None
Vapor Pressure :	Not available
Vapor Density :	Not available
Density / Specific Gravity:	1.04 - 1.10
Water Solubility :	Miscible
Fat Solubility :	Not available
Partition Coefficient (n-Octanol/Water):	Not available
Percent Volatile (%):	65 - 85
Evaporation Rate:	Not available
Viscosity (mPa s):	1.5 - 2.1

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, CO_2 , NOx , Ammonia and SOx
Hazardous Polymerization:	☐ May Occur ☒ Will Not Occur
Conditions to Avoid:	None

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:

Not available

Ingestion:

LD50 > 5000 mg/kg , 0/10 Mortality, a dose level of 5000 mg/kg (rat)
OECD Guidelines No.401 (1981)
84/449/EEC Method B1
16 CFR Sec.1500.3

Eye:

Non irritant (rabbit)
16 CFR Sec.1500.42

Skin:

Acute dermal irritation :
Mild irritant, Primary Irritation Index = 0.3 (rabbit)
16 CFR Sec.1500.41

Acute dermal toxicity :
LD50 > 2000 mg/kg , 0/10 Mortality, a dose level of 2000 mg/kg (rat)
OECD Guidelines No.402 (1981) & 84/449/EEC Method B3 & 16 CFR Sec.1500.40

Sensitization:

Non sensitizer, Sensitization rate = 0 % (0/10) (guinea pig)
OECD Guidelines No.406 (1992)
96/54/EC Method B6

Mutagenicity:

Ames test : Negative (test strains: *S.typhimurium*)

Chromosome aberration test : Negative
(test strains: *Human peripheral blood lymphocytes &*
A Chinese hamster fibroblast cell line isolated from the lung)

Reproductive Toxicity:

Not available

Carcinogenicity:

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.

Others:

Not available

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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 CONSIDERATION

Method of Disposal:

Disposal may 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):

None

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

(EEC)2455/92: Not regulated

Others: None

< USA Information >

Information on the Label under FHSA:

Signal Word: Not required

Hazard warning:
Not required

Safety Advice:
Not required

Hazardous Component(s):
None

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

SECTION 16 OTHER INFORMATION

<R phrase list>
R11 : Highly flammable.
R36 : Irritating to eyes.
R67 : Vapours may cause drowsiness or dizziness.

<Revised information from the previous version>
Entirely revised.

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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, (EEC)2455/92
- 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 Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft.
TWA: Time Weighted Average.
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 Act 1985.

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