

MATERIAL SAFETY DATA SHEET

 MSDS #: IC1084-0202
 Product Code: 0916A
SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Product Name: Canon Supply Kit Yellow For W7000 / Canon BJ Cartridge BC-7000Y / Canon Ink Tank BCI-7000Y

Product Code: 0916A /Q90-5289-403 / F45-1551 / F47-2271

Manufacturer: Canon Inc.

30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

Supplier: Canon Singapore Pte Ltd

1 HarbourFront Avenue, #04-01,Keppel Bay Tower, Singapore 098632

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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
Thiodiglycol	111-48-8 / 203-874-3	5 - 10	Xi / R36	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
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.-[1,4-dimethyl-1,4- bis(2-methylpropyl)-2-butyn-1,4- diyl]bis[.omega.-hydroxy-	9014-85-1 / Not applicable	1 - 5	Xi / R41	Not established	Not established	Not established	Not established
C.I. Direct Yellow 173	Not registered / 414-410-6	1 - 5	Xi / R41	Not established	Not established	Not established	Not established
Ammonia derivative	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 cartridge and ink tank containing yellow liquid ink with slight odor.

Combustible liquid.

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:

Neither irritation nor sensitization is expected. (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.

Keep away from heat and flame.

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

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	<u>Yellow liquid</u>
Odor:	<u>Slight odor</u>
pH:	<u>9 - 10</u>
Boiling Point/Range(°C):	<u>Not available</u>
Melting Point/Range(°C):	<u>Not available</u>
Decomposition Temperature(°C):	<u>Not available</u>
Flash Point(°C):	<u>56.6 (Tag. Closed Cup. Combustion is not sustainable.)</u>
Flammable (Explosive) Limits:	<u>Not available</u>
Autoignition Temperature(°C):	<u>473 (ASTM-E659)</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>
Explosive Properties:	<u>Estimate: None</u>
Oxidizing Properties:	<u>Estimate: None</u>
Vapor Pressure :	<u>Not available</u>
Vapor Density :	<u>Not available</u>
Density / Specific Gravity:	<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>
Percent Volatile (%):	<u>60 - 80</u>
Evaporation Rate:	<u>Not available</u>
Viscosity (mPa s):	<u>1 - 5</u>

SECTION 10 STABILITY AND REACTIVITY

Stability:	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
Conditions to Avoid:	<u>None</u>
Materials to Avoid:	<u>Acids, bases, oxidizing materials and reducing agents</u>
Hazardous Decomposition Products:	<u>CO, CO₂, NOx, SOx and Ammonia</u>
Hazardous Polymerization:	<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur
Conditions to Avoid:	<u>None</u>

SECTION 11 TOXICOLOGICAL INFORMATION**Acute Toxicity:****Inhalation:**

Not available

Ingestion:

Not available

Eye:

Minimal irritant (rabbit)

Å@EPA(FIFRA) Pesticide Assessment Guidelines Paragraph 81-4 ,

Å@EPA(TSCA) Federal Regulations Åð798.4500

Skin:

Non-irritant (rabbit)

EPA(FIFRA) Pesticide Assessment Guidelines Paragraph 81-5 ,

EPA(TSCA) Federal Regulations § 798.4470

Sensitization:

Non-sensitizer (guinea pig)

OECD Guidelines No.406 (1992) , 92/69/EEC Method B6

Mutagenicity:Ames test : Negative (*S.typhimurium*)**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:**COMBUSTIBLE LIQUID.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 %**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.

R41: Risk of serious damage to eyes.

R67: Vapours may cause drowsiness and dizziness.

<Revised information from the previous version>

Section 2, 3, 4, 7, 8, 9, 11 and 15

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 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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