MSDS #: \_\_\_\_

Product Code:

IC3110-0101

Page 1 of 8

5226B

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

**Product Identifier:** 

**Product Name:** Canon FINE Cartridge CL-541XL

**Product Code:** 5226B

**Relevant Identified Uses:** Ink for Ink Jet Printer

**Details of Supplier of Safety Data Sheet:** 

Supplier: Canon Europa NV

Address: Bovenkerkerweg 59, 1185XB Amstelveen, The Nederlands

**Telephone Number:** +31 20 5458545, +31 20 5458222

E-mail Address: www.canon-europe.com, ceu-Reach@canon-europe.com

DENMARK: +45 82 12 12 12; GERMANY: +49 30 19240, +49 761 19240;

Emergency Telephone Number: BELGIUM & NETHERLANDS: +32 70 245 245; FRANCE: +33 1 40 05 48 48;

UK only 0845 4647; FINLAND: +358 9 471 977; SWEDEN: +46 8 33 12 31

**Manufacturer:** Canon Inc.

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

SECTION 2 HAZARDS IDENTIFICATION

**Emergency Overview:** 

A three-color ink cartridge. (Cyan, Magenta and Yellow)

All the ink is liquid mixture with slight odor.

US Regulatory Status under FHSA:

Not classified as hazardous.

**US Label Elements under FHSA:** 

**Signal Word:** Not required

**Hazard Warning:** Not required

Safety Advice: Not required

Hazardous Component: Not required

EU Classification under 1999/45/EC:

Not classified as dangerous.

EU Label Elements under 1999/45/EC:

Symbol & Indication: Not required

**R-Phrase:** Not required

S-Phrase: Not required

Dangerous Component: Not required

Applicable Label Elements in accordance with Annex V to 1999/45/EC:

Not required

Other Hazards:

None



MSDS #:

Page 2 of 8 IC3110-0101

MATERIAL SAFETY DATA SHEET Product Code: 5226B

#### COMPOSITION/INFORMATION ON INGREDIENTS **SECTION 3**

Substance or Mixture: Mixture

**Ingredient(s):** 

Chemical Name/ Generic Name	CAS #/ EC #	Concentration/ Concentration Range (%)	EU Classification according to 67/548/EEC		EU Classification according to (EC) No 1272/2008		Note to Other
			Symbol/ Indication of Danger	R-Phrase*1	Hazard Class/ Category Code	Hazard   Statement* <sup>1</sup>	Hazards*
Glycerin	56-81-5 / 200-289-5	1 - 5	None	None	None	None	(1)
Ethylene urea	120-93-4 / 204-436-4	1 - 5	Xi / Irritant	R36	Eye Irrit. 2	H319	
Poly(oxy-1,2-ethanediyl), . alpha,alpha.'-[1,4-dimethyl -1,4-bis(2-methylpropyl)-2- butyne-1,4-diyl]bis[.omega hydroxy-	9014-85-1 / Not applicable	0.1 - 5	Xi / Irritant	R41	Eye Dam. 1	H318	
Substituted phthalocyanine salt (Contained in cyan ink)	Confidential	1 - 5	Xi / Irritant	R41 R52/53	Eye Dam. 1 Aquatic Chronic 3	H318 H412	
Substituted phthalocyanine (Contained in cyan ink)	Confidential	1 - 5	Xi / Irritant	R41	Eye Dam. 1	H318	
Pyiridine azo dye (Contained in magenta ink)	Confidential	1 - 5	N / Dangerous for environment	R51/53	Aquatic Chronic 2	H411	
Glycol	Confidential	5 - 10	None	None	None	None	
Glycol	Confidential	1 - 10	None	None	None	None	
Water	7732-18-5 / 231-791-2	60 - 80	None	None	None	None	

<sup>\*1</sup> Full texts of R-phrase(s) and Hazard statement(s) are listed in SECTION 16

#### Carcinogen(s):

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.

<sup>\*2</sup> The following substance(s) is (are) marked with (1), (2) and/or (3)

<sup>(1)</sup> Substance for which Occupational Exposure Limit(s) is (are) established (See SECTION 8)

<sup>(2)</sup> PBT substance or vPvB substance under Regulation (EC) No 1907/2006

<sup>(3)</sup> Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 1907/2006



MSDS #: \_\_\_ Product Code:

IC3110-0101

5226B

Page 3 of 8

#### 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.

#### Skin:

Wash with water and soap or mild detergent.

If irritation persists, obtain medical advice.

#### Eye:

Immediately flush with lukewarm, gently flowing water for 5 minutes or until the chemical is removed. If irritation persists, obtain medical advice immediately.

#### Most Important Symptoms and Effects, both Acute and Delayed:

#### **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.

#### Skin:

Neither irritation nor sensitization is expected. (See SECTION 11)

#### Eye:

May cause mild irritation. (See SECTION 11)

## **Chronic Effects:**

Not identified

#### **Indication of Any Immediate Medical Attention and Special Treatment Needed:**

None

## SECTION 5 FIRE FIGHTING MEASURES

### **Extinguishing Media:**

#### **Suitable Extinguishing Media:**

CO<sub>2</sub>, water, foam or dry chemicals

## **Unsuitable Extinguishing Media:**

None

## **Special Hazards:**

None

#### **Hazardous Combustion Products:**

CO, CO<sub>2</sub>, NOx and SOx

#### Advice for Fire-fighters:

None

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

## Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid contact with skin, eyes and clothing.

#### **Environmental Precautions:**

Do not release to sewer, surface water or ground water.

#### Methods and Material for Containment and Cleaning Up:

Wipe off with wet cloth or paper.

Page 4 of 8

	MSDS #: _	IC3110-0101
IATERIAL SAFETY DATA SHEET	Product Code:	5226B

Precautions for Safe Han Use with adequate vent Avoid contact with skin In case of contact, wasl Conditions for Safe Stora Keep in a cool and dry Protect from sunlight. Keep out of the reach of Specific End Uses: Ink for Ink Jet Printer. For more information,	ilation.  n, eyes and clothing.  n out the contaminated ange, Including Any Inceplace.  f children.	area immediately.  compatibilities:		
Control Parameters:	USA OSHA PEL	ACGIH TLV	EU OEL	DFG MAK
Product (Ink)	Not established	Not established	Not established	Not established
Glycerin	Glycerin mist: TWA 15 mg/m³ (Total dust) TWA 5 mg/m³ (Respirable fraction)	Glycerin mist: TWA 10 mg/m <sup>3</sup>	Not established	Not established
Exposure Controls: Engineering Controls Individual Protection Eye/Face Protect	Measures:	equipment is needed	d under intended use	of this product.
Skin Protection:	-	Not Required		
Respiratory Prot	ection: Required	Not Required		

MSDS #: \_ Product Code: Page 5 of 8 IC3110-0101

5226B

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES				
Information on Basic Physical and Chemic	eal Properties:			
Appearance:	Cyan, magenta and yellow liquid			
Odor:	Slight odor			
pH:	6-9			
<b>Melting Point/Freezing Point</b> (°C):	Not available			
Initial Boiling Point and Boiling Range (°C):	Not available			
Flash Point(°C):	None (Estimate)			
Evaporation Rate:	Not available			
Flammability:	Neither flammable nor combustible.			
Upper/Lower Flammable or Explosive Limits:	Not available			
Vapor Pressure :	Not available			
Vapor Density:	Not available			
Relative Density:	1.0 - 1.1			
Water Solubility:	Miscible			
Fat Solubility:	Not available			
Partition Coefficient (n-Octanol/Water):	Not available			
Auto-ignition Temperature ( $^{\circ}$ C):	Not available			
<b>Decomposition Temperature</b> ( ${}^{\circ}$ C):	Not available			
Viscosity (mPa s):	1 - 5			
Explosive Properties:	None (Estimate)			
Oxidizing Properties:	None (Estimate)			
Other Information:	Not available			
SECTION 10 STABILITY AND READ	CTIVITY			
Reactivity: None				
<u> </u>	able Unstable			
Possibility of Hazardous Reactions: None				
Conditions to Avoid: None				
Incompatible Materials: Acids	, bases, oxidizing materials and reducing agents			
Hazardous Decomposition Products: CO, CO <sub>2</sub> , NOx and SOx				

MSDS #: Product Code:

IC3110-0101

Page 6 of 8

5226B

#### TOXICOLOGICAL INFORMATION **SECTION 11**

**Information on Toxicological Effects:** 

**Acute Toxicity:** Inhalation:

Not available

**Ingestion:** 

Not available

**Corrosivity/Irritation:** 

Skin:

All colors: Non-irritant (rabbit)

OECD Guidelines No. 404 (2002), (EC) No 440/2008 Method B4

Eye:

All colors: Mild irritant (rabbit)

OECD Guidelines No. 405 (2002), (EC) No 440/2008 Method B5

**Sensitization:** 

Skin:

All colors: Non-sensitizer (mouse)

OECD Guidelines No. 429 (2002), (EC) No 440/2008 Method B42

**Repeated Dose Toxicity:** 

Not available

**Carcinogenicity:** 

Not available

**Mutagenicity:** 

Ames test:

All colors: Negative (S. typhimurium & E. Coli)

**Toxicity for Reproduction:** 

Not available

**Other Information:** 

Not available

MSDS #: \_

Page 7 of 8 IC3110-0101

Product Code: 5226B

SECTION 12 ECOLOGICAL INFORMATION

Toxicity: Cyan and Yellow: Not available

Magenta:

Fish, Acute toxicity test:

96-Hour LC50 > 100 mg/L (Oryzias latipes) (Estimate)

OECD Guideline No. 203 (1992) Daphnia sp., Acute immobilisation test:

48-Hour EC50 > 100 mg/L (Daphnia magna) (Estimate)

OECD Guideline No. 202 (2004) Lemna sp., Growth inhibition test:

EC50 (0-7day) > 100 mg/L, NOEC = 100 mg/L (Lemna minor) (Estimate)

OECD Guideline No. 221 (2006) NOEC: No Observed Effect Concentration

Persistence and Degradability: Not available

Bioaccumulative Potential: Not available

Mobility in Soil: Not available

Results of PBT and vPvB

No results that the component(s) of this ink meet(s) the PBT or vPvB criteria under

**Assessment:** Regulation (EC) No 1907/2006.

Other Adverse Effects: Not available

SECTION 13 DISPOSAL CONSIDERATIONS

**Waste Treatment Methods:** 

Disposal should be subject to federal, state and local laws.

SECTION 14 TRANSPORT INFORMATION

UN Number: None

UN Proper Shipping Name: None

**Transport Hazard Class:** None

Packing Group: None

Environmental Hazards: Not classified as environmentally hazardous under UN Model Regulations and marine

pollutant under IMDG Code.

**Special Precautions for User:** None

SECTION 15 REGULATORY INFORMATION

< USA Information >

SARA Title III §313:

Chemical Name Weight %

"Copper Compounds" (Contained in cyan ink) 5 - 10 (< 0.35)

California Proposition 65:

Chemical Name Weight %

None

< EU Information >

Safety, Health and Environmental Regulations/Legislation:

(EC) No 1907/2006: Authorisation: Not regulated

**Restriction:** Not regulated

(EC) No 1005/2009: Not regulated

(EC) No 850/2004: Not regulated

(EC) No 689/2008: Not regulated

Others: None

Chemical Safety Assessment under (EC) No 1907/2006: Not required

< Canada Information >

WHMIS Controlled Product: This product will not be shipped to Canada.

< Australia Information >

Statement of Hazardous Nature: This product will not be shipped to Australia.



MSDS #:

IC3110-0101

Page 8 of 8

Product Code: 5226B

#### SECTION 16 OTHER INFORMATION

<EU R-phrase according to 67/548/EEC>

R36: Irritating to eyes.

R41: Risk of serious damage to eyes.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

<EU Hazard statement according to (EC) No 1272/2008>

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

<Term explanation>

Estimate: Estimate based on data of similar product or the ingredient(s) of this product.

#### **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 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EC) No 850/2004, (EC) No 689/2008
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substance [NOHSC:1008]

#### Abbreviations:

OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA)

FHSA: Federal Hazardous Substances Act (USA) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative SVHC: Substances of Very High Concern

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program (USA)

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

WHMIS: Workplace Hazardous Materials Information System NOHSC: National Occupational Health and Safety Commission

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