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

Product Identifier:

Product Name: Canon FINE Cartridge CL-546XL

Product Code: 8288B

Relevant Identified Uses: Ink for Ink Jet Printer

Details of Supplier of Safety Data Sheet:

Supplier: <u>Canon Europa NV</u>

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

Emergency Telephone Number: DENMARK: +45 82 12 12 12; GERMANY: +49 30 19240, +49 761 19240; Emergency Telephone Number: DETCIIM & NETHEDLANDS: +32 70 245 245; EPANCE: +33 1 40 05 48 48

ergency 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



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SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

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* ¹	Hazards*
Glycerin	56-81-5 / 200-289-5	5 - 10	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	Н318	
Glycol	Confidential	1 - 10	None	None	None	None	
Substituted onthalocyanine Contained in cyan ink)	Confidential	1 - 5	None	None	None	None	
Water	7732-18-5 / 231-791-2	60 - 80	None	None	None	None	

^{*1} 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.

^{*2} The following substance(s) is (are) marked with (1), (2) and/or (3)

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

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

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



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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:

Cyan and Yellow: May cause minimal irritation.

Magenta: May cause moderate 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:

CO₂, water, foam or dry chemicals

Unsuitable Extinguishing Media:

None

Special Hazards:

None

Hazardous Combustion Products:

CO, CO₂, 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.



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SECTION 7 HANDLING AND STORAGE						
Precautions for Safe Handling:						
Use with adequate ventilation.						
Avoid contact with skin, eyes and clothing. In case of contact, wash out the contaminated area immediately.						
Conditions for Safe Stor		ompaubilities:				
Keep in a cool and dry	place.					
	Protect from sunlight. Keep out of the reach of children.					
	or children.					
Specific End Uses:						
	Ink for Ink Jet Printer.					
For more information,	please refer to the instru	ction of this product.				
SECTION 8 EXPO	OSURE CONTROLS /	PERSONAL PROT	ECTION			
Control Parameters:	USA	ACGIH TLV	EU OEL			
	OSHA PEL					
Product (Ink)	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 ³	Not established			
Individual Protection Eye/Face Protect Skin Protection:	Measures: tion: Required	☑ Not Required ☑ Not Required	l under intended use of th	is product.		

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SECTION 9 PHYSICAL AND CHE	MICAL PROPERTIES		
Information on Basic Physical and Chemi	cal Properties:		
Appearance:	Cyan, magenta and yellow liquid		
Odor:	Slight odor		
pH:	7 - 9		
Melting Point/Freezing Point ($^{\circ}$ 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:	None (Estimate)		
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):	None (Estimate)		
Decomposition Temperature (${}^{\circ}C$):	Not available		
Viscosity (mPa s):	1 - 5		
Explosive Properties:	None (Estimate)		
Oxidizing Properties:	None (Estimate)		
Other Information:	Not available		
SECTION 10 STABILITY AND REA	CTIVITY		
Reactivity: None			
Chemical Stability:	able Unstable		
Possibility of Hazardous Reactions: $\underline{\text{None}}$			
Conditions to Avoid: None			
Incompatible Materials: Acids	, bases, oxidizing materials and reducing agents		
Hazardous Decomposition Products: CO, CO ₂ , NOx and SOx			



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SECTION 11 TOXICOLOGICAL INFORMATION

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:

Cyan and Yellow: Minimal irritant (rabbit) Magenta: Moderate irritant (rabbit)

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

Sensitization:

Skin:

All colors: Non-sensitizer (mouse)

OECD Guidelines No. 429 (2010), (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

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ECOLOGICAL INFORMATION SECTION 12

Toxicity: Not available

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.

DISPOSAL CONSIDERATIONS SECTION 13

Waste Treatment Methods:

Other Adverse Effects:

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

Not available

SECTION 14 TRANSPORT INFORMATION

None **UN Number:**

None **UN Proper Shipping Name:**

None **Transport Hazard Class:**

None **Packing Group:**

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

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) 1 - 5

(as Cu) (< 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.



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SECTION 16 OTHER INFORMATION

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

R36: Irritating to eyes.

R41: Risk of serious damage to eyes.

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

H318: Causes serious eye damage. H319: Causes serious eye irritation.

<EU SDS information>

This safety data sheet (SDS) is supplied under (EC) No 1907/2006 Article 31-3.

<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
- 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

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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