

MATERIAL SAFETY DATA SHEET

MSDS #: _____

Product Code: 5166B

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

Product Identifier:

Product Name: CP-13II

Product Code: 5166B

Relevant Identified Uses: Ink roll for Printing Calculator

Details of Supplier of Safety Data Sheet:

Supplier: Canon Europa NV

Address: Bovenkerkerweg 59, 1185XB Amstelveen, The Netherlands

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; 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 Electronic Business Machines (H.K.) Co., Ltd.

Address: 17/F., Tower One, Ever Gain Plaza, 82-100 Container Port Road, Kwai Chung, New Territories, Hong Kong.

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview:

None

US Regulatory Status under FHSA:

US Label Elements under FHSA:

Signal Word: Not required

Hazard Warning: Not required

Safety Advice: Not required

Hazardous Component: None

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 applicable

Other Hazards:

None

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 Hazards* ²
			Symbol/ Indication of Danger	R-Phrase* ¹	Hazard Class/ Category Code	Hazard Statement* ¹	
[Red Ink] Organic Pigments	5850-80-6 227-456-5	20.0 – 24.0	None	None	None	None	
Ester Oil A	73398-61-5 277-452-2	39.0 – 42.0	None	None	None	None	
Ester Oil B	8007-43-0 232-360-1	12.0 – 14.0	None	None	None	None	
Another Oil	68554-11-0 Not applicable	3.0 – 5.0	None	None	None	None	
NBR	9003-18-3 Not applicable	18.0 – 23.0	None	None	None	None	
[Blue Ink] Organic Pigment	6358-30-1 228-767-9	1.0 – 2.0	None	None	None	None	
Dyestuff	1325-86-6 215-409-1	8.0 – 12.0	None	None	None	None	
Ester Oil A	73398-61-5 277-452-2	10.0 – 12.0	None	None	None	None	
Ester Oil B	8007-43-0 232-360-1	1.0 – 3.0	None	None	None	None	
Fatty Acid	30399-84-9 250-178-0	47.0 – 51.0	None	None	None	None	
NBR	9003-18-3 Not applicable	24.0 – 29.0	None	None	None	None	

*1 Full texts of R-phrase(s) and Hazard statement(s) are listed in SECTION 16

*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

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.

SECTION 4 FIRST AID MEASURES

First Aid Measures:

Inhalation:

Not applicable

Ingestion:

Wash mouth with water and get medical advice.

Skin:

Wash with soap and water.

Eye:

Rinse with plenty of water and seek medical advice if any irritation remains.

Most Important Symptoms and Effects, both Acute and Delayed:

Inhalation:

No symptoms expected under intended use. (See section 11)

Ingestion:

No symptoms expected under intended use. (See section 11)

Skin:

No symptoms expected under intended use. (See section 11)

Eye:

No symptoms expected under intended use. (See section 11)

Chronic Effects:

No symptoms expected under intended use. (See section 11)

Indication of Any Immediate Medical Attention and Special Treatment Needed:

None

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media:

Water, Foam, CO2, Dry chemical and others.

Unsuitable Extinguishing Media:

None

Special Hazards:

None

Hazardous Combustion Products:

Carbon oxides, nitrogen oxides will form in fire.

Advice for Fire-fighters:

Wear suitable protective suit and self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Not applicable under intended use.

Environmental Precautions:

None

Methods and Material for Containment and Cleaning Up:

Wipe off with paper or cloth.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling:

Prohibition of dropping and throwing.

Conditions for Safe Storage, Including Any Incompatibilities:

Keep away from heat and direct sunlight.
Store in cool, dry, well-ventilated area.

Specific End Uses:

Ink roll for Printing Calculator.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

	USA OSHA PEL	ACGIH TLV	EU OEL
Product (Ink roller)	Not established	Not established	Not established
All ingredients	Not established	Not established	Not established

Exposure Controls:

Engineering Controls: Not required

Individual Protection Measures:

Eye/Face Protection: Required Not Required

Skin Protection: Required Not Required

Respiratory Protection: Required Not Required

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties:

Appearance:	<u>Solid Red / Blue</u>
Odor:	<u>None</u>
pH:	<u>No data available</u>
Melting Point/Freezing Point (°C):	<u>No data available</u>
Initial Boiling Point and Boiling Range (°C):	<u>>200°C</u>
Flash Point(°C):	<u>250°C (Red Ink)</u> <u>184°C (Blue Ink)</u>
Evaporation Rate:	<u>No data available</u>
Flammability:	<u>Combustibles</u>
Upper/Lower Flammable or Explosive Limits:	<u>None</u>
Vapor Pressure :	<u>No data available</u>
Vapor Density :	<u>About 1.0</u>
Relative Density:	<u>No data available</u>
Water Solubility :	<u>Insoluble</u>
Fat Solubility :	<u>No data available</u>
Partition Coefficient (n-Octanol/Water):	<u>No data available</u>
Auto-ignition Temperature (°C):	<u>No data available</u>
Decomposition Temperature(°C):	<u>No data available</u>
Viscosity (mPa s):	<u>No data available</u>
Explosive Properties:	<u>None</u>
Oxidizing Properties:	<u>There is nothing in general storage and handling.</u>
Other Information:	<u>None</u>

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	<u>None</u>
Chemical Stability:	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
Possibility of Hazardous Reactions:	<u>Not applicable in normal use.</u>
Conditions to Avoid:	<u>None</u>
Incompatible Materials:	<u>None</u>
Hazardous Decomposition Products:	<u>None</u>

SECTION 11 TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:

Acute Toxicity:

Inhalation:

[Red Ink / Blue Ink] No data available

Ingestion:

[Red Ink] LD50>2,000mg/kg(rat) (Data of the Ester Oil A)
 LD50>39.8g/kg(rat) (Data of the Ester Oil B)

[Blue Ink] LD50>2,000mg/kg(rat) [OECD Guideline for Testing of Chemicals 420]

Corrosivity/Irritation:

Skin:

[Red Ink] No data available
 [Blue Ink] P.D.I.I.=1.4(rabbit) Classification of irritancy; mild irritant [OECD Guideline for Testing of Chemicals 404]

Eye:

[Red Ink] No data available
 [Blue Ink] Slightly irritating (Data of the Fatty Acid)

Sensitization:

Skin:

[Red Ink] No data available
 [Blue Ink] Sensitizer rate 10%; It doesn't correspond to 67/548/EEC and 1999/45/EC.
 [OECD Test Guideline No.406, Maximization test]

Repeated Dose Toxicity:

[Red Ink / Blue Ink] No data available

Carcinogenicity:

[Red Ink / Blue Ink] No data available

Mutagenicity:

[Red Ink / Blue Ink] Negative in Ames Test.

Toxicity for Reproduction:

[Red Ink / Blue Ink] No data available

Other Information:

None

SECTION 12 ECOLOGICAL INFORMATION

Toxicity: [Red Ink / Blue Ink] Rainbow trout, 96h, LC50>100mg/L (Data of the Ester Oil A,B)
 [Blue Ink] Cyprinus caripo, 48h, LC0=10, LC50=13.4, LC100=32 (Data of the Fatty Acid)

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Results of PBT and vPvB Assessment: Not applicable

Other Adverse Effects: No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Treatment Methods:
Dispose of waste material in accordance with local, state and federal pollution regulations.

SECTION 14 TRANSPORT INFORMATION

UN Number: None

UN Proper Shipping Name: None

Transport Hazard Class: None

Packing Group: None

Environmental Hazards: Not Applicable (IMDG Code)

Special Precautions for User: None

SECTION 15 REGULATORY INFORMATION

< USA Information >

SARA Title III §313:

Chemical Name	Weight %
<u>None</u>	

California Proposition 65:

Chemical Name	Weight %
<u>None</u>	

< 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 assessed

< Canada Information >

WHMIS Controlled Product: Not a Controlled Product.

< Australia Information >

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

SECTION 16 OTHER INFORMATION

<Revised information from the previous version>
 Entirely revised.

<EU SDS information>
 This safety data sheet (SDS) is supplied voluntarily.

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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