

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

**Product Identifier:**

**Product Name:** Canon EP-W Cartridge (for Laser Beam Printer )

**Product Code:** 1545A / R74-6002

**Relevant Identified Uses:** Toner for electrophotographic apparatus

**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 Inc.

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

**SECTION 2 HAZARDS IDENTIFICATION**

**Emergency Overview:** Black fine powder, slight plastic odor.

**US Regulatory Status under OSHA HCS:**

Not classified as hazardous.

**US Label Elements under OSHA HCS:**

**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

**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* <sup>2</sup>
			Symbol/ Indication of Danger	R-Phrase* <sup>1</sup>	Hazard Class/ Category Code	Hazard Statement* <sup>1</sup>	
Styrene acrylate copolymer	Confidential	45-55	None	None	None	None	
Ferrite including copper and zinc	Confidential	40-50 (as Cu: 0-0.4 Zn: 0-0.7)	None	None	None	None	
Amorphous Silica	7631-86-9/ 231-545-4	1-3	None	None	None	None	(1)

\*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 toner 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:

If symptoms are experienced, move victim to fresh air and obtain medical advice.

#### Ingestion:

Rinse mouth. Drink 1 or 2 glasses of water. If irritation or discomfort occurs, obtain medical advice immediately.

#### Skin:

Wash with soap and water. If irritation persists, obtain medical advice.

#### Eye:

Do not allow victim to rub eye(s). Flush with lukewarm, gently flowing water for 5 minutes or until particle is removed. If irritation persists, obtain medical attention.

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

#### Inhalation:

Exposure to excessive amounts of dust may cause physical irritation to respiratory tract.

#### Ingestion:

Practically non-toxic. Ingestion is a minor route of entry for intended use of this product.

#### Skin:

May be non-irritant.

#### Eye:

May cause transient slight irritation.

#### Chronic Effects:

Prolonged inhalation of excessive amounts of dust may cause lung damage. Use of this product as intended does not result in inhalation of excessive amounts of dust.

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

None

## SECTION 5 FIRE FIGHTING MEASURES

### Extinguishing Media:

#### Suitable Extinguishing Media:

CO2, water, dry chemicals

#### Unsuitable Extinguishing Media:

None

### Special Hazards:

Can form explosive dust-air mixtures when finely dispersed in air.

### Hazardous Combustion Products:

CO2, CO

### Advice for Fire-fighters:

Wear gloves, glasses, a mask if necessary.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid breathing dust. Wash thoroughly after handling.

### Environmental Precautions:

Do not wash away into sewer.

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

Sweep slowly spilled powder on to paper, and carefully transfer into a waste container. Clean remainder with wet paper, wet cloth or a vacuum cleaner.

If a vacuum cleaner is used, it must rate as a dust explosion-proof type. Fine powder can form explosive dust-air mixtures.

## SECTION 7 HANDLING AND STORAGE

### Precautions for Safe Handling:

Avoid breathing dust. Wash thoroughly after handling.  
Use with adequate ventilation.

### Conditions for Safe Storage, Including Any Incompatibilities:

Keep out of the reach of children.  
Keep away from oxidizing materials.

### Specific End Uses:

Toner for electrophotographic apparatus.  
For more information, please refer to the instruction of this product.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters:

	USA OSHA PEL	ACGIH TLV	EU OEL
Product (Toner)	PNOR: TWA 15 mg/m <sup>3</sup> (Total dust), TWA 5 mg/m <sup>3</sup> (Respirable fraction)	PNOS: TWA 10 mg/m <sup>3</sup> (Inhalable fraction), TWA 3 mg/m <sup>3</sup> (Respirable fraction)	Not established
Amorphous silica	20 mppcf, 80 (mg/m <sup>3</sup> )/%SiO <sub>2</sub>	Not established	Not established

### Exposure Controls:

#### Engineering Controls:

No special ventilation equipment is needed under intended use of this product.

#### 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:	Black fine powder
Odor:	Slight plastic odor
pH:	Not applicable
Melting Point/Freezing Point (°C):	100-150 (Softening point)
Initial Boiling Point and Boiling Range (°C):	Not applicable
Flash Point(°C):	Not applicable
Evaporation Rate:	Not applicable
Flammability:	Estimate: Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids)) (See SECTION 16)
Upper/Lower Flammable or Explosive Limits:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Relative Density:	1.4-1.8
Water Solubility:	Negligible
Fat Solubility:	Partially soluble in toluene and xylene.
Partition Coefficient (n-Octanol/Water):	Not applicable
Auto-ignition Temperature (°C):	Not available
Decomposition Temperature (°C):	> 200
Viscosity (mPa s):	Not applicable
Explosive Properties:	Can form explosive dust-air mixtures when finely dispersed in air.
Oxidizing Properties:	Not available
Other Information:	Not available

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	None
Chemical Stability:	<input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
Possibility of Hazardous Reactions:	None
Conditions to Avoid:	None
Incompatible Materials:	Strong oxidizers
Hazardous Decomposition Products:	CO, CO2

## SECTION 11 TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects:

#### Acute Toxicity:

##### Inhalation:

Not available

##### Ingestion:

Estimate: Rat, LD50 > 5000 mg/kg (See SECTION 16)

#### Corrosivity/Irritation:

##### Skin:

Estimate: Rabbit, non-irritant (See SECTION 16)

##### Eye:

Estimate: Rabbit, transient slight conjunctival irritation only. (See SECTION 16)

#### Sensitization:

##### Skin:

Estimate: Non-sensitizing (See SECTION 16)

#### Repeated Dose Toxicity:

Muhle et al. reported pulmonary response upon chronic inhalation exposure in rats to a toner enriched in respirable-sized particles compared to commercial toner. No pulmonary change was found at 1 mg/m<sup>3</sup> which is most relevant to potential human exposure. A minimal to mild degree of fibrosis was noted in 22% of the animals at 4 mg/m<sup>3</sup>, and a mild to moderate degree of fibrosis was observed in 92% of the animals at 16 mg/m<sup>3</sup>.

These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lung for a prolonged interval.

#### Carcinogenicity:

Not available

#### Mutagenicity:

Ames Test (S. typhimurium): Negative

#### Toxicity for Reproduction:

Not available

#### Other Information:

Not available

## SECTION 12 ECOLOGICAL INFORMATION

<b>Toxicity:</b>	Estimate: Fish, 96h LL50 > 1000 mg/l (WAF) Estimate: Crustaceans, 48h EL50 > 1000 mg/l (WAF) Estimate: Algae, ErL50(0-72h) > 1000 mg/l (WAF) (See SECTION 16)
<b>Persistence and Degradability:</b>	Not available
<b>Bioaccumulative Potential:</b>	Not available
<b>Mobility in Soil:</b>	Not available
<b>Results of PBT and vPvB Assessment:</b>	No results that the component(s) of this toner meet(s) the PBT or vPvB criteria under Regulation (EC) No 1907/2006.
<b>Other Adverse Effects:</b>	Not available

## SECTION 13 DISPOSAL CONSIDERATIONS

### Waste Treatment Methods:

DO NOT put toner or toner container into fire; heated toner may cause severe burns. DO NOT shred a toner container, unless dust-explosion preventing measures are taken. Finely dispersed particles form explosive mixtures in air. Disposal should be subject to federal, state and local laws.

## SECTION 14 TRANSPORT INFORMATION

<b>UN Number:</b>	2807
<b>UN Proper Shipping Name:</b>	Magnetized material
<b>Transport Hazard Class:</b>	9
<b>Packing Group:</b>	None
<b>Environmental Hazards:</b>	Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.
<b>Special Precautions for User:</b>	18 or more of these products shipped together, by air, are regulated as magnetized material.

## SECTION 15 REGULATORY INFORMATION

### < USA Information >

#### SARA Title III §313:

Chemical Name	Weight %
"Copper compounds" and "Zinc compounds"	40-50
(as Cu)	(0-0.2)
(as Zn)	(0-0.4)

#### California Proposition 65:

Chemical Name	Weight %
None	

### < EU Information >

#### Safety, Health and Environmental Regulations/Legislation:

<b>(EC) No 1907/2006: Authorisation:</b>	Not regulated
<b>Restriction:</b>	Not regulated
<b>(EC) No 1005/2009:</b>	Not regulated
<b>(EC) No 850/2004:</b>	Not regulated
<b>(EC) No 689/2008:</b>	Not regulated
<b>Others:</b>	None

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

## SECTION 15 REGULATORY INFORMATION (continued)

### < 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

<Revised information from the previous version>

Entirely revised

<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 Substances[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  
 PNOR: Particulates Not Otherwise Regulated  
 PNOS: Particles (insoluble or poorly soluble) Not Otherwise Specified  
 WHMIS: Workplace Hazardous Materials Information System  
 NOHSC: National Occupational Health and Safety Commission

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