

# MATERIAL SAFETY DATA SHEET

SECTION 1	IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE
	COMPANY/UNDERTAKING
<b>Product Name:</b>	Canon C-EXV 4 Black Toner Unit
<b>Product Code:</b>	6748A / F42-4901
<b>Company Name:</b>	Canon Europa N.V.
Address:	Bovenkerkerweg 59-61, 1185XB, Amstelveen, The Netherlands
Use of the Product	Toner for electrophotographic apparatus

## 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
Iron oxide	1317-61-9/ 215-277-5	40-50	None/ None	Not established	Not established	Not established	Not established
Styrene acrylate copolymer	Confidential	35-45	None/ None	Not established	Not established	Not established	Not established
Styrene polymer	Confidential	5-15	None/ None	Not established	Not established	Not established	Not established
Amorphous silica	7631-86-9/ 231-545-4	1-2	None/ None	20mppcf, 80(mg/m <sup>3</sup> )/%SiO <sub>2</sub>	10 mg/m <sup>3</sup> (TWA)	Not established	4 mg/m <sup>3</sup> (Inhalable fraction)

CAS#

Reference

#### < Carcinogen > Chemical Name

No component of this toner 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:**

Black fine powder, slight plastic odor.

## **Potential Health Effects and Symptoms:**

#### Inhalation:

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

#### Ingestion:

Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.

#### Eye:

May cause transient slight irritation.

#### Skin:

May be non-irritant.

#### **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.

## Medical Conditions Generally known to be Aggravated by Exposure:

Not determined



## 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.

## 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.

#### Skin:

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

### Note to Physicians:

None

## SECTION 5 FIRE FIGHTING MEASURES

## Fire Fighting Measures:

Extinguishing Media:

CO2, water, dry chemicals

**Unsuitable Extinguishing Media:** 

#### None

## **Special Fire Fighting Procedures:**

None

#### **Unusual Fire and Explosion Hazards:**

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

#### Fire and Explosive Properties (See also Section 9):

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

CO2, CO

#### **Other Properties:**

Not available

## SECTION 6 ACCIDENTAL RELEASE MEASURES

#### **Personal Precautions:**

Avoid breathing dust.

#### **Environmental Precautions:**

Do not wash away into sewer.

#### Method for 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

#### Handling:

Avoid breathing dust. Use with adequate ventilation.

## Storage:

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

#### **Specific Uses:**

Toner for electrophotographic apparatus.

For more information, please refer to the instruction of this product.



#### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

## **Exposure Guidelines:**

USA OSHA PEL (TWA): 15 mg/m<sup>3</sup> (Total dust), 5 mg/m<sup>3</sup> (Respirable fraction) ACGIH TLV (TWA): 10 mg/m<sup>3</sup> (Inhalable fraction), 3 mg/m<sup>3</sup> (Respirable fraction) 4 mg/m<sup>3</sup> (Inhalable fraction), 1.5 mg/m<sup>3</sup> (Respirable fraction) DFG (MAK): (Also refer to 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

Appearance:	Black fine powder	
Odor:	Slight plastic odor	
pH:	Not applicable	
<b>Boiling Point/Range(°C):</b>	Not applicable	
Melting Point/Range(°C):	100-150 (Softening point)	
Flash Point(°C):	Not applicable	
Flowmakilitza	Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability	
Flammability:	(Solids))	
<b>Explosive Properties:</b>	Can form explosive dust-air mixtures when finely dispersed in air.	



SECTION 10 STABILITY AND	REACTIVITY			
Stability:	⊠ Stable □ Unstable			
Conditions to Avoid:	None			
Materials to Avoid:	Strong oxidizers			
Hazardous Decomposition Products:	<u>CO, CO2</u>			
Hazardous Polymerization:	☐ May Occur			
Conditions to Avoid:	None			
SECTION 11 TOXICOLOGIC	AL INFORMATION			
Acute Toxicity: Inhalation: Not available				
Ingestion: Estimate: Rat, LD50 > 2000 mg	/kg (See Section 16)			
Eye: Estimate: Rabbit, transient slight	conjunctival irritation only. (See Section 16)			
Skin: Estimate: Rabbit, non-irritant (See Section 16)				
Sensitization: Guinea pig, skin: Non-sensitizin	g			
Mutagenicity: Ames Test (S. typhimurium): Ne	egative			
Reproductive Toxicity: Not available				
Carcinogenicity: Not available				
respirable-sized particles compared most relevant to potential human animals at 4 mg/m <sup>3</sup> , and a mild to	response upon chronic inhalation exposure in rats to a toner enriched in red to commercial toner. No pulmonary change was found at 1 mg/m <sup>3</sup> which is exposure. A minimal to mild degree of fibrosis was noted in 22% of the pomoderate degree of fibrosis was observed in 92% of the animals at 16 mg/m <sup>3</sup> . lung overloading", a generic response to excessive amounts of any dust retained			

in the lung for a prolonged interval.



# SECTION 12 ECOLOGICAL INFORMATION Mobility: Not available Persistence / Degradability: Not available Bioaccumulation: Not available Ecotoxicity: Fish (Rainbow trout), 96h LL50 > 1000 mg/l (WAF) Crustaceans (Daphnia magna), 48h EL50 > 1000 mg/l (WAF) Algae (Scenedesmus subspicatus), EbL50(72h), ErL50(0-72h) > 1000 mg/l (WAF) Other Adverse Effects: Not available

## SECTION 13 DISPOSAL CONSIDERATIONS

#### Method of Disposal:

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	<b>FRANSPORT INFORMATION</b>
UN #:	None
UN Shipping Name	None
UN Classification:	None
UN Packing Group:	None
Marine Pollutant:	☐ Yes Chemical name (wt%): X No
<b>Special Precautions</b>	None
SECTION 15	REGULATORY INFORMATION
< EU Information >	
Information on the	e Label:
Symbol & Indic	ation: Not required
<b>R-Phrase:</b> Not required	
S-Phrase:	
Not required	
Dangerous Com Not required	ponent(s):
Special Precauti Not required	ons under 1999/45/EC Annex V:
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



Information on the Label:	
Signal Word: Not required	
Hazard warning:	
Not required	
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 a controlled product	
< Australia Information >	
Statement of Hazardous Nature:         Not classified as hazardous according to criteria of NOHSC.	

#### **SECTION 16 OTHER INFORMATION**

Estimate: Estimate based on test data on similar toner/developer/drum and/or the raw materials of this product.

- Literature Reference: 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 and 2000/39/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). WAF: Water Accommodated Fraction LL: Lethal Loading rate EL: Effective Loading rate 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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