

MATERIAL SAFETY DATA SHEET

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

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Product Name:	Canon EP-P Cartridge (for Laser Beam Printer)		
Product Code:	1529A / R74-2003		
Company Name:	Canon Europa N.V.		
Address:	Bovenkerkerweg 59-61, 1185 XB, 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
Styrene acrylate copolymer	Confidential	45-55	None/ None	Not established	Not established	Not established	Not established
Iron oxide	1317-61-9/ 215-277-5	45-55	None/ None	Not established	Not established	Not established	Not established
Amorphous silica	7631-86-9/ 231-545-4	1-2	None/ None	20 mppcf, 80(mg/m ³)/%SiO ₂	10 mg/m ³ (TWA)	Not established	4 mg/m ³ (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 based on animal testing. 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/m³ (Total dust), 5 mg/m³ (Respirable fraction)

OSA OSIIA I EL (I WA).	15 mg/m (10tal dust), 5 mg/m (Respirable fraction)
ACGIH TLV (TWA):	10 mg/m ³ (Inhalable fraction), 3 mg/m ³ (Respirable fraction)
DFG (MAK):	4 mg/m ³ (Inhalable fraction), 1.5 mg/m ³ (Respirable fraction)
(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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black fine powder
Odor:	Slight plastic odor
pH:	Not applicable
Boiling Point/Range(°C):	Not applicable
Melting Point/Range(°C):	100 - 150 (Softening point)
Decomposition Temperature(°C):	> 200
Flash Point(°C):	Not applicable
Flammable (Explosive) Limits:	Not applicable
Autoignition Temperature(°C):	Not available
Flammability:	Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids))
Explosive Properties:	Can form explosive dust-air mixtures when finely dispersed in air.
Oxidizing Properties:	Not available
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Density / Specific Gravity:	1.5 - 1.8
Water Solubility:	Negligible
Fat Solubility:	Partially soluble in toluene and xylene.
Partition Coefficient (n-Octanol/Water):	Not applicable
Percent Volatile:	Negligible
Evaporation Rate:	Not applicable
Viscosity (mPa s):	Not applicable



SECTION 10 STABILITY AND	REACTIVITY			
Stability:	X 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 TOXICOLOGICA	AL INFORMATION			
Acute Toxicity: Inhalation: Not available				
Ingestion: Rat, LD50 > 2000 mg/kg				
Eye: Rabbit, transient slight conjunction	val irritation only.			
Skin: Rabbit, non-irritant				
Sensitization: Guinea pig, skin: Non-sensitizing	g			
Mutagenicity: Ames Test (S. typhimurium, E. c	coli): Negative			
Reproductive Toxicity: Not available				
Carcinogenicity: Not available				
respirable-sized particles compare most relevant to potential human animals at 4 mg/m ³ , 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 ³ 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 ³ . 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:	Not available
Other Adverse Effects:	Not available
Ecotoxicity:	Not available

SECTION 13 DISPOSAL CONSIDERATION

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	FRANSPORT INFORMATION
UN #:	2807
UN Shipping Name	: Magnetized material
UN Classification:	9
UN Packing Group	: None
Marine Pollutant:	☐ Yes Chemical name (wt%): ☑ No
Special Precautions	: 96 or more of these products shipped together, by air, are regulated as magnetized material.
SECTION 15	REGULATORY INFORMATION
< EU Information >	
Information on the	e Label:
Symbol & Indic	ation: Not required
R-Phrase: Not required	
S-Phrase: Not required	
Dangerous Com None	iponent(s):
Special Precauti Not required	ions under 1999/45/EC Annex V:
Specific Provisions	s 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
< USA Information	>
Information on the	e Label:
Signal Word:	Not required
Hazard warning Not required	3:



Safety Advice: Not required		
Hazardous Component(s): None		
SARA Title III §313:		
Chemical Name		Weight %
None		
California Proposition 65:		
Chemical Name		Weight %
None		_
< Canada Information > WHMIS Controlled Product:	Not applicable (Manufactured article)	
< Australia Information > Statement of Hazardous Nature:	Not classified as hazardous according to criteria of N	NOHSC.
SECTION 16 OTHER INFOR	MATION	
Revised information from the prev	ious version: Entirely revised	
 U.S. Department of Health and Human Ser World Health Organization International A Chemicals to Humans DFG, List of MAK and BAT Values EU Directive 76/769/EEC, 67/548/EEC, 1 EU Regulation (EC)2037/2000, (EC)304/2 Canada Workplace Hazardous Materials In 	CFR Part 372 n, 16CFR Part 1500 ical Substances and Physical Agents and Biological Exposure Indice vices National Toxicology Program, Annual Report on Carcinogens gency for Research on Cancer, IARC Monographs on the Evaluation 999/45/EC 2003	n on the Carcinogenic Risk of
ACGIH TLV: TLV(Threshold Limit Value) EU ILV: Indicative Limit Values for Occup DFG MAK: MAK(Maximale Arbeitsplatz-H TWA: Time Weighted Average. STEL: Short Term Exposure Limit. IARC: International Agency for Research on NTP: National Toxicology Program (USA). OSHA HCS: Occupational Safety and Heal FHSA: Federal Hazardous Substances Act (WHMIS: Workplace Hazardous Materials I NOHSC: National Occupational Health and The information, data and recommendations	th Act, Hazard Communication Standard (USA). USA). nformation System. . Safety Commission. . set forth herein (the "Information") are presented in good faith and a	re believed to be correct as of the
date hereof. The company/manufacturer r responsibility for any reliance thereon. The determination as to its suitability for their p with applicable Federal, state and local law nature whatsoever resulting from the use or NO REPRESENTATIONS OR WARRA	makes no representations as to the completeness or accuracy of e Information is provided upon the condition that the persons rece urposes prior to use. Any use of the Information must be determine vs and regulations. In no event will the company/manufacturer be reliance upon the Information. INTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANT OTHER NATURE ARE MADE WITH RESPECT TO THE INFOR-	² the Information and disclaims iving same will make their own d by the user to be in accordance responsible for damages of any ABILITY, FITNESS FOR A