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Product Code: 2576B / R84-9112

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

**COMPANY/UNDERTAKING** 

**Product Name:** Canon Cartridge 717 Magenta (for Laser Beam Printer)

Product Code: 2576B / R84-9112 Company Name: Canon Europa N.V.

**Address:** Bovenkerkerweg 59-61, Amstelveen, 1185XB, The Netherlands

Use of the Product: Toner for electrophotographic apparatus

**SECTION 2 HAZARDS IDENTIFICATION EU Classification:** Not classified as dangerous.

**Emergency Overview:** Magenta 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 3 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	75-85	None/ None	Not established	Not established	Not established	Not established
Wax	Confidential	5-15	None/ None	Not established	Not established	Not established	Not established
Pigment	Confidential	1-6	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/m³)/%SiO <sub>2</sub>	Not established	Not established	4 mg/m <sup>3</sup> (Inhalable fraction)

## < Carcinogen >

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.

## < PBT substance and vPvB substance >

No component of this toner is a PBT or vPvB subtance under Regulation (EC)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. 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.



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SECTION 8 EXPOSURE CONTR	COLS / PERSONAL PROTECTION				
<b>Exposure Guidelines:</b>					
ACGIH TLV (TWA): 10 mg/m <sup>3</sup> (	Γotal dust), 5 mg/m³ (Respirable fraction) Inhalable fraction), 3 mg/m³ (Respirable fraction) halable fraction), 1.5 mg/m³ (Respirable fraction)				
<b>Engineering Controls:</b>					
Use adequate ventilation.					
<b>Personal Protection Equipment(s):</b>					
Respiratory Protection: Required Mot Required					
Eye/Face Protection: Required Not Required					
	_				
SECTION 9 PHYSICAL AND CH	EMICAL PROPERTIES				
Appearance:	Magenta fine powder				
Odor:	Slight plastic odor				
pH:	Not applicable				
Boiling Point/Range(°C):	Not applicable				
Melting Point/Range(°C):	100-150 (Softening point)				
<b>Decomposition Temperature</b> (°C):	> 200				
Flash Point(°C):	Not applicable				
Flammable (Explosive) Limits:	Not applicable				
<b>Autoignition Temperature(°C):</b>	Not available				
Flammability:	Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids))				
<b>Explosive Properties:</b>	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:	1.0-1.2				
Water Solubility:	Negligible				
Fat Solubility:	Partially soluble in toluene and xylene.				
Partition Coefficient (n-Octanol/Water):	Not applicable				
Percent Volatile:	Negligible				
<b>Evaporation Rate:</b>	Not applicable				
Viscosity (mPa s):	Not applicable				

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SECTION 10 STABILITY AND	REACTIVITY		
Stability:	<ul><li></li></ul>		
Conditions to Avoid:	None		
Materials to Avoid:	Strong oxidizers		
Hazardous Decomposition Products:	CO, CO2		
Hazardous Polymerization:	☐ May Occur ☑ Will Not Occur		
Conditions to Avoid:	None		
SECTION 11 TOXICOLOGICAL INFORMATION			
Acute Toxicity: Inhalation:  Not available			
Ingestion: Rat, LD50 > 2000 mg/kg			
Eye: Rabbit, transient slight conjunct	ival irritation only.		
Skin: Rabbit, non-irritant			
Sensitization: Not available			
Mutagenicity: Ames Test (S. typhimurium, E.			
Reproductive Toxicity: Not available			
Carcinogenicity: Not available			

## Others:

Chronic effects:

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/m³ 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/m³, and a mild to moderate degree of fibrosis was observed in 92% of the animals at 16 mg/m³. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lung for a prolonged interval.

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SECTION 12 E	COLOG	GICAL INFORMATION				
<b>Mobility:</b>		Not available				
Persistence / Degradability: Bioaccumulation:		Not available Not available				
		Crustaceans , 48h EL50 > 1000 mg/l (WAF) Algae , EbL50(72h), ErL50(0-72h) > 1000 mg/l (WAF)				
		Algae , E0L30(7211), E1L30(0-7211) > 1000 llig/1 (WAI <sup>*</sup> )				
Other Adverse Effects:		Not available				
SECTION 13 D	ISPOSA	AL CONSIDERATIONS				
container, unless d	łust-expl	r container into fire; heated toner may cause severe burns. DO NOT shred a toner losion preventing measures are taken. Finely dispersed particles form explosive hould be subject to federal, state and local laws.				
SECTION 14 T	RANSP	ORT INFORMATION				
UN #:	None					
<b>UN Shipping Name:</b>	None					
<b>UN Classification:</b>	None					
<b>UN Packing Group:</b>	None					
	☐ Yes ☑ No	Chemical name (wt%):				
<b>Special Precautions:</b>	None					
SECTION 15 R	EGULA	ATORY INFORMATION				
< EU Information >						
Information on the Label:						
Symbol & Indica	ation: No	ot required				
R-Phrase: Not required						
S-Phrase: Not required						
Dangerous Comp Not required	ponent(s	s):				
Special Precaution Not required	ons unde	er 1999/45/EC Annex V:				
Specific Provisions	in Relat	tion to Protection of Man or the Environment:				
76/769/EEC:	Not regu					
(EC)2037/2000:	Not regu	ot regulated				
(EC)304/2003:	Not regulated					
Others	None					

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< USA Information >

**Information on the Label under OSHA:** 

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 applicable (Manufactured article)

< Australia Information >

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

## SECTION 16 OTHER INFORMATION

None

#### Literature References:

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40 CFR 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, (EC)1907/2006
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]



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#### **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, 2000/39/EC and 2006/15/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.

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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