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MATERIAL SAFETY DATA SHEET Product Code: 2575B / R84-9111

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE **SECTION 1** 

COMPANY/UNDERTAKING

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

**Product Code:** 2575B / R84-9111 **Company Name:** Canon Europe 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:** Yellow 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.

Eve:

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	1-5	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 substance 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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**Evaporation Rate:** Viscosity (mPa s):

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#### EXPOSURE CONTROLS / PERSONAL PROTECTION **SECTION 8 Exposure Guidelines:** USA OSHA PEL (TWA): 15 mg/m<sup>3</sup> (Total dust), 5 mg/m<sup>3</sup> (Respirable fraction) 10 mg/m<sup>3</sup> (Inhalable fraction), 3 mg/m<sup>3</sup> (Respirable fraction) ACGIH TLV (TWA): 4 mg/m<sup>3</sup> (Inhalable fraction), 1.5 mg/m<sup>3</sup> (Respirable fraction) DFG (MAK): (Also refer to SECTION 3) **Engineering Controls:** Use adequate ventilation. **Personal Protection Equipment(s): Respiratory Protection:** $\square$ Required Not Required ☐ Required **Eye/Face Protection:** Not Required **Skin Protection:** ☐ Required Not Required **SECTION 9** PHYSICAL AND CHEMICAL PROPERTIES Appearance: Yellow 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:** 1.0 - 1.2Water Solubility: Negligible **Fat Solubility:** Partially soluble in toluene and xylene. Partition Coefficient (n-Octanol/Water): Not applicable **Percent Volatile:**

Negligible Not applicable

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				
<b>Hazardous Decomposition Products:</b>	CO, CO2				
Hazardous Polymerization:	☐ May Occur ☑ Will Not Occur				
Conditions to Avoid:	None				
SECTION 11 TOXICOLOGICAL INFORMATION					
Acute Toxicity: Inhalation:  Not available					
<b>Ingestion:</b> 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.	coli): Negative				
Reproductive Toxicity: Not available					
Carcinogenicity:  Not available					
Othors					

## 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/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.

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SECTION 12 EC	COLOG	GICAL INFORMATION				
Mobility: Persistence / Degradability: Bioaccumulation:		Not available				
		Not available Not available				
		Crustaceans, 48h EL50 > 1000 mg/l (WAF) Algae, EbL50(72h), ErL50(0-72h) > 1000 mg/l (WAF)				
		Algae , E0L30(/211), E1L30(0-/211) > 1000 llig/1 (WAF)				
Other Adverse Effects:		Not available				
SECTION 13 DI	SPOSA	L 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 TH	RANSP	ORT INFORMATION				
UN #: <u>N</u>	None					
UN Shipping Name: None						
UN Classification: None						
UN Packing Group: N	None					
Marine Pollutant: ☐ Yes Chemical name (wt%): ☐ No						
<b>Special Precautions:</b> N	None					
SECTION 15 RI	EGULA	ATORY INFORMATION				
< EU Information >						
Information on the l						
Symbol & Indicat	tion: No	ot required				
R-Phrase: Not required						
S-Phrase: Not required						
Dangerous Component(s):  Not required						
Special Precautions under 1999/45/EC Annex V:  Not required						
=		tion to Protection of Man or the Environment:				
(EC)2037/2000: N	Not regulated					
_	Not regulated					
` ′ =	None					
Others: N	vone					

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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, 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
- $-\,EU\,\,Regulation\,(EC)2037/2000,\,(EC)304/2003,\,(EC)1907/2006$
- 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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