

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

	MFAN I/UNDERIARING			
<b>Product Identifier:</b>				
Product Name:	Canon EP-27 Cartridge for Laser Beam Printer			
Product Code:	8489A / R34-6002			
<b>Relevant Identified Us</b>	ses: Toner for electrophotographic apparatus			
Details of Supplier of Supplier:	Safety Data Sheet: Canon Europa NV			
1100010000	Bovenkerkerweg 59, 1185XB Amstelveen, The Nederlands			
<b>Telephone Number:</b>	r: <u>+31 20 5458545</u> , +31 20 5458222			
E-mail Address:	www.canon-europe.com, ceu-Reach@canon-europe.com			
Emergency Telephone	e 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			
Emergency Overview: US Regulatory Status Not classified as ha US Label Elements un Signal Word: Hazard Warning: Safety Advice: Hazardous Compor EU Classification und Not classified as da	azardous.  hder OSHA HCS:  Not required Not required Not required Not required Not required er 1999/45/EC:			
EU Label Elements ur	-			
Symbol & Indicatio	n: Not required			
<b>R-Phrase:</b>	Not required			
S-Phrase:	Not required			
Dangerous Compor	nent: Not required			
Applicable Label E Not required	lements in accordance with Annex V to 1999/45/EC:			
Other Hazards: None				



#### SECTION 3

## COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: <u>Mixture</u> Ingredient(s):

Chemical Name/ Generic Name	CAS #/ EC #	Concentration/ Concentration			EU Classification according to (EC) No 1272/2008 Hazard Class/ Hazard		Note to Other
		Range (%)	Symbol/ Indication of Danger	R-Phrase <sup>*1</sup>	Hazard Class/ Category Code	Hazard Statement <sup>*1</sup>	Hazards*2
Styrene acrylate copolymer	Confidential	45-55	None	None	None	None	
Iron oxide	1317-61-9/ 215-277-5	40-50	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:**

Low acute toxicity. 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:**

<u>CO2, CO</u>

#### **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

trol 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
<b>Respiratory Protection</b>	: □ Required ⊠ Not Required



## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Che Appearance:	emical Properties: Black fine powder		
Odor:	Slight plastic odor		
рН:	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/Wate	r): 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 R	FACTIVITY		

ECTION 10 STABILITY AND REACTIVITY				
None				
⊠ Stable □ Unstable				
None				
None				
Strong oxidizers				
<u>CO, CO2</u>				



	OXICOLOGICAL INFORMATION
nformation on Toxic	cological Effects:
Acute Toxicity:	
Inhalation:	
Not available	
Ingestion:	
Estimate: Rat,	LD50 > 2000  mg/kg (See SECTION 16)
Corrosivity/Irritati	on:
Skin:	
	bit, non-irritant (See SECTION 16)
Eye:	
	bit, transient slight conjunctival irritation only. (See SECTION 16)
Sensitization:	
Skin:	
Estimate: Non	-sensitizing (See SECTION 16)
<b>Repeated Dose Tox</b>	icity:
respirable-sized	borted pulmonary response upon chronic inhalation exposure in rats to a toner enriched in a particles compared to commercial toner. No pulmonary change was found at $1 \text{ mg/m}^3$ which t to potential human exposure. A minimal to mild degree of fibrosis was noted in 22% of the $\text{mg/m}^3$ , and a mild to moderate degree of fibrosis was observed in 92% of the animals at 16
These findings	are attributed to "lung overloading", a generic response to excessive amounts of any dust ung for a prolonged interval.
Carcinogenicity: Not available	
Mutagenicity:	
Estimate: Ame	s Test (S. typhimurium, E. coli): Negative (See SECTION 16)
Toxicity for Reproc	luction:
Not available	
Other Information	

## Other Information:

Not available



MATERIAL SAFETY DATA SHEET

**SECTION 12 ECOLOGICAL INFORMATION Toxicity:** 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) Persistence and Degradability: Not available Not available **Bioaccumulative Potential:** Mobility in Soil: Not available **Results of PBT and vPvB** No results that the component(s) of this toner meet(s) the PBT or vPvB criteria **Assessment:** under Regulation (EC) No 1907/2006. **Other Adverse Effects:** 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 TRAI	NSPORT INFOR	MATION			
UN Number:	2807	2807			
UN Proper Shipping N	ame: Magnetize	Magnetized material			
Transport Hazard Class: 9					
Packing Group: None					
Environmental Hazard		Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.			
Special Precautions for	User: 79 or more material.	<b>79</b> or more of these products shipped together, by air, are regulated as magnetized material.			
< USA Information > SARA Title III §313: <u>Chemical Name</u>	ULATORY INFO			Weight %	
None					
California Proposition Chemical Name	65:			Weight %	
None					
< EU Information > Safety, Health and Env	vironmental Regu	ilations/Legislatio	n:		
(EC) No 1907/2006:	Authorisation:	Not regulated			
	<b>Restriction:</b>	Not regulated			
(EC) No 1005/2009:	Not regulated				
(EC) No 850/2004:	Not regulated				
(EC) No 689/2008:	Not regulated				
Others:	None				
Chemical Safety Assess	sment under (EC)	) No 1907/2006: N	lot 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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