

# 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<br>Supplier:   | Safety Data Sheet:<br>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:<br>US Regulatory Status<br>Not classified as ha<br>US Label Elements un<br>Signal Word:<br>Hazard Warning:<br>Safety Advice:<br>Hazardous Compor<br>EU Classification und<br>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<br>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/<br>Generic Name | CAS #/<br>EC #          | Concentration/<br>Concentration |                                 |                        | EU Classification according to<br>(EC) No 1272/2008<br>Hazard Class/ Hazard |                                   | Note to<br>Other |
|--------------------------------|-------------------------|---------------------------------|---------------------------------|------------------------|---|-----------------------------------|------------------|
|                                |                         | Range (%)                       | Symbol/<br>Indication of Danger | R-Phrase <sup>*1</sup> | Hazard Class/<br>Category Code  | Hazard<br>Statement <sup>*1</sup> | Hazards*2        |
| Styrene acrylate<br>copolymer  | Confidential            | 45-55                           | None                            | None                   | None  | None                              |                  |
| Iron oxide                     | 1317-61-9/<br>215-277-5 | 40-50                           | None                            | None                   | None  | None                              |                  |
| Amorphous silica               | 7631-86-9/<br>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<br>OSHA PEL  | ACGIH TLV  | EU OEL          |
|------------------|--|--|-----------------|
| Product (Toner)  | PNOR:<br>TWA 15 mg/m <sup>3</sup><br>(Total dust),<br>TWA 5 mg/m <sup>3</sup><br>(Respirable fraction) | PNOS:<br>TWA 10 mg/m <sup>3</sup><br>(Inhalable fraction),<br>TWA 3 mg/m <sup>3</sup><br>(Respirable fraction) | Not established |
| Amorphous silica | 20 mppcf,<br>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<br>☑ Not Required |
|-------------------------------|------------------------------|
| Skin Protection:              | ☐ Required<br>☑ Not Required |
| <b>Respiratory Protection</b> | : □ Required ⊠ Not Required  |



## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| Information on Basic Physical and Che<br>Appearance: | emical Properties:<br>Black fine powder   |  |  |
|--|---|--|--|
| Odor:  | Slight plastic odor   |  |  |
| рН:  | Not applicable  |  |  |
| Melting Point/Freezing Point (°C):                   | 100-150 (Softening point)   |  |  |
| Initial Boiling Point and<br>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<br>Flammability (Solids)) (See SECTION 16) |  |  |
| Upper/Lower Flammable or<br>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<br>□ 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<br>a particles compared to commercial toner. No pulmonary change was found at $1 \text{ mg/m}^3$ which<br>t to potential human exposure. A minimal to mild degree of fibrosis was noted in 22% of the<br>$\text{mg/m}^3$ , 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<br>ung for a prolonged interval.  |
| Carcinogenicity:<br>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 ><br>SARA Title III §313:<br><u>Chemical Name</u> | ULATORY INFO               |  |              | Weight % |  |
| None  |                            |  |              |          |  |
| California Proposition<br>Chemical Name                             | 65:                        |  |              | Weight % |  |
| None  |                            |  |              |          |  |
| < EU Information ><br>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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