

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

**Product Name:** Canon C-EXV 2 (Magenta) Toner  
**Product Code:** 4237A / F42-3921  
**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 /<br>Generic name | CAS # /<br>EC # | Weight<br>% | EU Symbol/<br>R-Phrase | USA<br>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    | 5-10        | None/ None             | Not established | Not established | Not established | Not established |
| Pigments                        | confidential    | 5-10        | None/ None             | Not established | Not established | Not established | Not established |

< **Carcinogen** >

| Chemical Name  | CAS # | Reference |
|--|-------|-----------|
| 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:**

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

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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.

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**Ingestion:**

Rinse mouth. Drink 1 or 2 glasses of water. If irritation or discomfort occurs, obtain medical advice immediately.

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**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.

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**Skin:**

Wash with soap and water. If irritation persists, obtain medical advice.

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**Note to Physicians:**

None

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**SECTION 5 FIRE FIGHTING MEASURES****Fire Fighting Measures:****Extinguishing Media:**

CO<sub>2</sub>, water, dry chemicals

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**Unsuitable Extinguishing Media:**

None

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**Special Fire Fighting Procedures:**

None

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**Unusual Fire and Explosion Hazards:**

Can form explosive dust-air mixtures when finely dispersed in air.

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**Fire and Explosive Properties (See also Section 9):****Hazardous Combustion Products:**

CO<sub>2</sub>, CO

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**Other Properties:**

Not available

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**SECTION 6 ACCIDENTAL RELEASE MEASURES****Personal Precautions:**

Avoid breathing dust.

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**Environmental Precautions:**

Do not wash away into sewer.

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**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.

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**SECTION 7 HANDLING AND STORAGE****Handling:**

Avoid breathing dust.

Use with adequate ventilation.

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**Storage:**

Keep out of the reach of children.

Keep away from oxidizing materials.

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**Specific Uses:**

Toner for electrophotographic apparatus.

For more information, please refer to the instruction of this product.

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### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Guidelines:

USA OSHA PEL (TWA): 15 mg/m<sup>3</sup> (Total dust), 5 mg/m<sup>3</sup> (Respirable fraction)  
 ACGIH TLV (TWA): 10 mg/m<sup>3</sup> (Inhalable fraction), 3 mg/m<sup>3</sup> (Respirable fraction)  
 DFG (MAK): 4 mg/m<sup>3</sup> (Inhalable fraction), 1.5 mg/m<sup>3</sup> (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

|   |   |
|---|---|
| <b>Appearance:</b>                              | Magenta fine powder   |
| <b>Odor:</b>                                    | Slight plastic odor   |
| <b>pH:</b>                                      | Not applicable  |
| <b>Boiling Point/Range(°C):</b>                 | Not applicable  |
| <b>Melting Point/Range(°C):</b>                 | 100 - 150 (Softening point)   |
| <b>Decomposition Temperature(°C):</b>           | > 200   |
| <b>Flash Point(°C):</b>                         | Not applicable  |
| <b>Flammable (Explosive) Limits:</b>            | Not applicable  |
| <b>Autoignition Temperature(°C):</b>            | Not available   |
| <b>Flammability:</b>                            | 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.          |
| <b>Oxidizing Properties:</b>                    | Not available   |
| <b>Vapor Pressure:</b>                          | Not applicable  |
| <b>Vapor Density:</b>                           | Not applicable  |
| <b>Density / Specific Gravity:</b>              | 1.0 - 1.2   |
| <b>Water Solubility:</b>                        | Negligible  |
| <b>Fat Solubility:</b>                          | Partially soluble in toluene and xylene.                                    |
| <b>Partition Coefficient (n-Octanol/Water):</b> | Not applicable  |
| <b>Percent Volatile:</b>                        | Negligible  |
| <b>Evaporation Rate:</b>                        | Not applicable  |
| <b>Viscosity (mPa s):</b>                       | Not applicable  |

**SECTION 10 STABILITY AND REACTIVITY**

**Stability:**  Stable  
 Unstable

**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 conjunctival irritation only.

**Skin:**  
Rabbit, non-irritant

**Sensitization:**  
Estimate: Guinea pig, skin: Non-sensitizing (See Section 16)

**Mutagenicity:**  
Ames Test (S. typhimurium, E. coli): Negative

**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/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.

### SECTION 12 ECOLOGICAL INFORMATION

**Mobility:** Not available

**Persistence / Degradability:** Not available

**Bioaccumulation:** Not available

**Ecotoxicity:** Not available

**Other Adverse Effects:** 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 TRANSPORT INFORMATION

**UN #:** None

**UN Shipping Name:** None

**UN Classification:** None

**UN Packing Group:** None

**Marine Pollutant:**  Yes  No Chemical name (wt%): \_\_\_\_\_

**Special Precautions:** None

### SECTION 15 REGULATORY INFORMATION

< EU Information >

**Information on the Label:**

**Symbol & Indication:** Not required

**R-Phrase:** Not required

**S-Phrase:** Not required

**Dangerous Component(s):** None

**Special Precautions under 1999/45/EC Annex V:** Not required

**Specific Provisions 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 Label:**

**Signal Word:** Not required

**Hazard warning:** Not required

**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 a controlled product

< **Australia Information** >**Statement of Hazardous Nature:**

Not classified as hazardous according to criteria of NOHSC.

**SECTION 16 OTHER INFORMATION**

Estimate: Estimate based on test data on similar toner/developer/drum and/or the raw materials of this product.

Revised information from the previous version: Entirely revised

## Literature Reference:

- 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
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]

## 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 and 2000/39/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).
- 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.

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