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### MATERIAL SAFETY DATA SHEET

MSDS #: TC1345-0102 Product Code: 9422A / R84-8012

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

**COMPANY/UNDERTAKING** 

**Product Name:** Canon Cartridge 107 Magenta for Laser Beam Printer

Product Code: 9422A / R84-8012
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 / 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	20mppcf, 80(mg/m³)/%SiO <sub>2</sub>	10 mg/m³(TWA)	Not established	4 mg/m³ (Inhalable fraction)

# < 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.

### 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

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#### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION Exposure Guidelines:** USA OSHA PEL (TWA): 15 mg/m³ (Total dust), 5 mg/m³ (Respirable fraction) ACGIH TLV (TWA): 10 mg/m<sup>3</sup> (Inhalable fraction), 3 mg/m<sup>3</sup> (Respirable fraction) 4 mg/m<sup>3</sup> (Inhalable fraction), 1.5 mg/m<sup>3</sup> (Respirable fraction) DFG (MAK): (Also refer to SECTION 2) **Engineering Controls:** Use adequate ventilation. **Personal Protection Equipment(s): Respiratory Protection:** Required ■ Not Required ☐ Required **Eye/Face Protection:** ■ Not Required **Skin Protection:** ☐ Required **☒** Not Required **SECTION 9** PHYSICAL AND CHEMICAL 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) **Decomposition Temperature(°C):** > 200 Not applicable Flash Point(°C): Flammable (Explosive) Limits: Not applicable Autoignition Temperature(°C): Not available Flammability: Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids)) Can form explosive dust-air mixtures when finely dispersed in air. **Explosive Properties: 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 **Evaporation Rate:** Not applicable Viscosity (mPa s): Not applicable

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SECTION 10 STABILITY AND	REACTIVITY				
Stability:	Stable     Unstable     □				
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 TOXICOLOGIC	AL INFORMATION				
Acute Toxicity: Inhalation: Not available					
<b>Ingestion:</b> Rat, LD50 > 2000 mg/kg					
Eye: Rabbit, transient slight conjuncti	val irritation only.				
<b>Skin:</b> Rabbit, non-irritant					
Sensitization: Not available					
Mutagenicity: Ames Test (S. typhimurium, E. o	coli): Negative				
Reproductive Toxicity:  Not available					
Carcinogenicity:  Not available					
respirable-sized particles comparmost relevant to potential human at 4 mg/m³, and a mild to moderate	response upon chronic inhalation exposure in rats to a toner enriched in red to commercial toner. No pulmonary change was found at 1 mg/m³ which is a exposure. A minimal to mild degree of fibrosis was noted in 22% of the animals at degree of fibrosis was observed in 92% of the animals at 16 mg/m³. llung overloading", a generic response to excessive amounts of any dust retained				

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in the lung for a prolonged interval.

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MATERIAL SAFETY DATA SHEET Product Code: 9422A / R84-8012 **SECTION 12 ECOLOGICAL INFORMATION** Mobility: Not available Persistence / Degradability: Not available **Bioaccumulation:** Not available Not available **Ecotoxicity:** Other Adverse Effects: Not available **SECTION 13 DISPOSAL 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** TRANSPORT INFORMATION UN #: None **UN Shipping Name:** None **UN Classification:** None **UN Packing Group:** None Chemical name (wt%): **Marine Pollutant:** ☐ Yes **⋈** No **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):** Not required Special Precautions under 1999/45/EC Annex V:

# 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

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Not required

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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 %

**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 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]

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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.

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