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MSDS #: TC1222-0507

Product Code: 6751A / F42-4801

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

**Product Identifier:** 

**Product Name:** Canon EP-65 Cartridge (for Laser Beam Printer)

**Product Code:** 6751A / F42-4801

Relevant Identified Uses: Toner for electrophotographic apparatus

**Details of Supplier of Safety Data Sheet:** 

**Supplier:** Canon Singapore Pte. Ltd.

Address: 1 HarbourFront Avenue #04-01 Keppel Bay Tower Singapore 098632

**Telephone Number:** 65-6799 8888

E-mail Address: cspl\_msds@canon.com.sg

**Emergency Telephone Number:** 

**Manufacturer:** Canon Inc.

Address: 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview: Black fine powder, slight plastic odor.

**US Regulatory Status under OSHA HCS:** 

Not classified as hazardous.

**US Label Elements under OSHA HCS:** 

Signal Word: Not required

Hazard Warning: Not required

Safety Advice: Not required

Hazardous Component: Not required

EU Classification under 1999/45/EC:

Not classified as dangerous.

EU Label Elements under 1999/45/EC:

Symbol & Indication: Not required

**R-Phrase:** Not required

S-Phrase: Not required

**Dangerous Component:** Not required

Applicable Label Elements in accordance with Annex V to 1999/45/EC:

Not required

Other Hazards: None



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# SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: Mixture

**Ingredient(s):** 

Chemical Name/ Generic Name	CAS #/ EC #	Concentration/ Concentration Range (%)	67/548/EEC		EU Classification according to (EC) No 1272/2008 Hazard Class/ Hazard		Note to Other
			Symbol/ Indication of Danger	R-Phrase*1	Category Code	Hazard Statement*	Hazards*2
Styrene acrylate copolymer	Confidential	40-50	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)

<sup>\*1</sup> Full texts of R-phrase(s) and Hazard statement(s) are listed in SECTION 16

# 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.

<sup>\*2</sup> The following substance(s) is (are) marked with (1), (2) and/or (3)

<sup>(1)</sup> Substance for which Occupational Exposure Limit(s) is (are) established (See SECTION 8)

<sup>(2)</sup> PBT substance or vPvB substance under Regulation (EC) No 1907/2006

<sup>(3)</sup> Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 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.

#### Skin:

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

#### Eve:

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.

#### Eve:

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:**

CO2, CO

# **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.



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# HANDLING AND STORAGE **SECTION 7 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 Control Parameters:** ACGIH TLV **USA EU OEL** OSHA PEL PNOR: Product (Toner) PNOS: Not established TWA 15 mg/m<sup>3</sup> TWA 10 mg/m<sup>3</sup> (Total dust), (Inhalable fraction), TWA 5 mg/m<sup>3</sup> TWA 3 mg/m<sup>3</sup> (Respirable fraction) (Respirable fraction) Amorphous silica 20 mppcf, Not established Not established $80 \text{ (mg/m}^3)/\% \text{SiO}_2$ **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

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**Respiratory Protection:** 

Required

Not Required



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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES						
Information on Basic Physical and C	hemical Properties:					
Appearance:	Black fine powder					
Odor:	Slight plastic odor					
pH:	Not applicable					
<b>Melting Point/Freezing Point (°C):</b>	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/Water): Not applicable						
Auto-ignition Temperature ( $^{\circ}$ C):	Not available					
Decomposition Temperature ( ${}^{\circ}C$ ):	> 200					
Viscosity (mPa s):	Not applicable					
<b>Explosive Properties:</b>	Can form explosive dust-air mixtures when finely dispersed in air.					
Oxidizing Properties:	Not available					
Other Information:	Not available					
SECTION 10 STABILITY AND Reactivity:	REACTIVITY None					
•						
Chemical Stability:	Stable Unstable					
Possibility of Hazardous Reactions:	None					
Conditions to Avoid:	ne					
Incompatible Materials:	Strong oxidizers					
Hazardous Decomposition Products: CO, CO2						

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#### TOXICOLOGICAL INFORMATION **SECTION 11**

**Information on Toxicological Effects:** 

**Acute Toxicity:** 

**Inhalation:** 

Not available

**Ingestion:** 

Estimate: Rat, LD50 > 2000 mg/kg (See SECTION 16)

**Corrosivity/Irritation:** 

Skin:

Estimate: Rabbit, non-irritant (See SECTION 16)

Eye:

Estimate: Rabbit, transient slight conjunctival irritation only. (See SECTION 16)

**Sensitization:** 

Skin:

Estimate: Non-sensitizing (See SECTION 16)

# **Repeated Dose Toxicity:**

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  $mg/m^3$ .

These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lung for a prolonged interval.

#### **Carcinogenicity:**

Not available

#### **Mutagenicity:**

Estimate: Ames Test (S. typhimurium, E. coli): Negative (See SECTION 16)

# **Toxicity for Reproduction:**

Not available

#### **Other Information:**

Not available

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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

Bioaccumulative Potential: Not available

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 TRANSPORT INFORMATION

UN Number: 2807

UN Proper Shipping Name: Magnetized material

**Transport Hazard Class:** 9

Packing Group: None

**Environmental Hazards:** Not classified as environmentally hazardous under UN Model Regulations and

marine pollutant under IMDG Code.

Special Precautions for User: 12 or more of these products shipped together, by air, are regulated as magnetized

material.

# SECTION 15 REGULATORY INFORMATION

< USA Information >

SARA Title III §313:

Chemical Name Weight %

None

California Proposition 65:

Chemical Name Weight %

None

< EU Information >

Safety, Health and Environmental Regulations/Legislation:

(EC) No 1907/2006: Authorisation: Not regulated

**Restriction:** Not regulated

(EC) No 1005/2009: Not regulated

(EC) No 850/2004: Not regulated

(EC) No 689/2008: Not regulated

Others: None

Chemical Safety Assessment under (EC) No 1907/2006: Not required



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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.

<EU SDS information>

This safety data sheet (SDS) is supplied voluntarily.

#### 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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