

MSDS #:

TC1222-0405 Product Code: 6751A / F42-4801

Page 1 of 7

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE **SECTION 1**

COMPANY/UNDERTAKING

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

Supplier: Canon Singapore Pte Ltd **Product Code:** 6751A / F42-4801 1 HarbourFront Avenue, #04-01, Keppel Bay Tower, **Company Name:** Canon Inc. Singapore 098632 Address: 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan cspl_msds@canon.com.sg

Use of the Product: Toner for electrophotographic apparatus

SECTION 2 HAZARDS IDENTIFICATION **EU Classification:** Not classified as dangerous.

Emergency Overview: Black 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. Ingestion is a minor route of entry for intended use of this product.

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

COMPOSITION/INFORMATION ON INGREDIENTS SECTION 3

<	Ingredier	nt(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	40-50	None/ None	Not established	Not established	Not established	Not established
Iron oxide	1317-61-9/ 215-277-5	40-50	None/ None	Not established	Not established	Not established	Not established
Amorphous silica	7631-86-9/ 231-545-4	1-2	None/ None	20 mppcf, 80 (mg/m³)/%SiO ₂	Not established	Not established	4 mg/m ³ (Inhalable fraction)

< Carcinogen >

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.

< PBT substance and vPvB substance >

No component of this toner is a PBT or vPvB subtance under Regulation (EC)1907/2006.

July 19, 2001 Revised: Date of Issue: January 15, 2008

Page 2 of 7 TC1222-0405

Product Code: 6751A / F42-4801

MSDS #:

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

SECTION 5 FIRE FIGHTING MEASURES

Fire Fighting Measures:

Extinguishing Media:

CO2, water, dry chemicals

Unsuitable Extinguishing Media:

None

Special Fire Fighting Procedures:

None

Unusual Fire and Explosion Hazards:

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

Fire and Explosive Properties (See also SECTION 9):

Hazardous Combustion Products:

CO2, CO

Other Properties:

Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid breathing dust.

Environmental Precautions:

Do not wash away into sewer.

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.

SECTION 7 HANDLING AND STORAGE

Handling:

Avoid breathing dust.

Use with adequate ventilation.

Storage:

Keep out of the reach of children.

Keep away from oxidizing materials.

Specific Uses:

Toner for electrophotographic apparatus.

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



Page 3 of 7
MSDS #: TC1222-0405

Product Code: 6751A / F42-4801

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

DECTION EMODERE CONT.	ROLS / TERSONAL TROTLETION		
Exposure Guidelines:			
ACGIH TLV (TWA): 10 mg/m ³ ((Total dust), 5 mg/m³ (Respirable fraction) Inhalable fraction), 3 mg/m³ (Respirable fraction) Inhalable fraction), 1.5 mg/m³ (Respirable fraction)		
Engineering Controls: Use adequate ventilation.			
Personal Protection Equipment(s):			
Respiratory Protection: ☐ Required Not Req			
Eye/Face Protection: Required Not Req	d		
Skin Protection: ☐ Required ☐ Not Req			
SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance:	Black fine powder		
Odor:	Slight plastic odor		
рН:	Not applicable		
Boiling Point/Range($^{\circ}$ C):	Not applicable		
Melting Point/Range($^{\circ}$ C):	100-150 (Softening point)		
Decomposition Temperature (${}^{\circ}C$):	> 200		
Flash Point(°C):	Not applicable		
Flammable (Explosive) Limits:	Not applicable		
Autoignition Temperature(${}^{\circ}$ C):	Not available		
Flammability:	Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids))		
Explosive Properties:	Can form explosive dust-air mixtures when finely dispersed in air.		
Oxidizing Properties:	Not available		
Vapor Pressure:	Not applicable		
Vapor Density:	Not applicable		
Density / Specific Gravity:	1.4-1.8		
Water 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		

Page 4 of 7 TC1222-0405

MSDS #: TC1222-0405

MATERIAL SAFETY DATA SHEET Product Code: 6751A / F42-4801

SECTION 10 STABILITY AND REACTIVITY		
Stability:		
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 TOXICOLOGICA	AL INFORMATION	
Acute Toxicity: Inhalation: Not available		
Ingestion: Estimate: Rat, LD50 > 2000 mg/kg (See SECTION 16)		
Eye: Estimate: Rabbit, transient slight conjunctival irritation only. (See SECTION 16)		
Skin: Estimate: Rabbit, non-irritant (See SECTION 16)		
Sensitization: Estimate: skin: Non-sensitizing (See SECTION 16)		
Mutagenicity: Estimate: Ames Test (S. typhimurium, E. coli): Negative (See SECTION 16)		
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^3 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^3 , 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.

Page 5 of 7 TC1222-0405

MSDS #: MATERIAL SAFETY DATA SHEET Product Code: 6751A / F42-4801

SECTION 12	ECOLOGICAL INFORMATION

Mobility: Not available

Persistence / Degradability: Not available

Bioaccumulation: Not available

Ecotoxicity: Estimate: Fish, 96h LL50 > 1000 mg/l (WAF)

Estimate: Crustaceans, 48h EL50 > 1000 mg/l (WAF)

Estimate: Algae, EbL50(72h), ErL50(0-72h) > 1000 mg/l (WAF)

(See SECTION 16)

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 INFOR	MATION
UN #:	By ship:None	By air:Not identified
UN Shipping Name	By ship:None	By air:Not identified
UN Classification:	By ship:None	By air:Not identified
UN Packing Group	By ship:None	By air:Not identified
Marine Pollutant:	☐ Yes Chemical na ☐ No	me (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):

Not required

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



Page 6 of 7

MSDS #: TC1222-0405

Product Code: 6751A / F42-4801

< 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 %

None

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

Revised information from the previous version: SECTION 2, 3, 8, 11, 12 and 14

Estimate: Estimate based on test data on similar toner/developer/drum and/or the raw materials 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
- 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, (EC)1907/2006
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]



Page 7 of 7

MSDS #: TC1222-0405

Product Code: 6751A / F42-4801

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.

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

The information, data and recommendations set forth herein (the "Information") are presented in good faith and are believed to be correct as of the date hereof. The company/manufacturer makes no representations as to the completeness or accuracy of the Information and disclaims responsibility for any reliance thereon. The Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal, state and local laws and regulations. In no event will the company/manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO THE INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.