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MSDS #: TC2385-0103

HEET Product Code: 8026B / R10-6501

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

Product Identifier:

Product Name: Canon Cartridge 333 (for Laser Beam Printer)

Product Code: 8026B / R10-6501

Relevant Identified Uses: Toner for electrophotographic apparatus

Details of Supplier of Safety Data Sheet:

Supplier: Canon Singapore Pte. Ltd.

Address: 1 HarbourFront Ave #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* ¹	Hazards*2
Styrene acrylate copolymer	Confidential	45-55	None	None	None	None	
Ferrite including zinc	Confidential	40-50 (as Zn: 0-0.7)	None	None	None	None	
Amorphous silica	7631-86-9/ 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

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.

^{*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

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FIRST AID MEASURES **SECTION 4**

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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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.							
1 of more information, prease refer to the instruction of this product.							
SECTION 8 EXPOS	SURE CONTROLS / I	PERSONAL PROTE	CTION				
Control Parameters:							
	USA OSHA PEL	ACGIH TLV	EU OEL				
Product (Toner)	PNOR:	PNOS:	Not established				
()	TWA 15 mg/m ³	TWA 10 mg/m ³					
	(Total dust),	(Inhalable fraction),					
	TWA 5 mg/m ³	TWA 3 mg/m ³					
	(Respirable fraction)	(Respirable fraction)					
Amorphous silica	20 mppcf,	Not established	Not established				
	80 (mg/m ³)/%SiO ₂						
Exposure Controls:							
Engineering Controls:							
	n equipment is needed u	ınder intended use of the	his product.				
Individual Protection M	Ieasures:						
Eye/Face Protection	: Required						
250,1 400 1 1 00000001	Not Required						
	1.5t Required						
Skin Protection:	☐ Required						
	Not Required						
	-						
Respiratory Protection: Required							
	Not Required						



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SECTION 9 PHYSICAL AND 0	CHEMICAL PROPERTIES	
Information on Basic Physical and C		
Appearance:	Black fine powder	
Odor:	Slight plastic odor	
pH:	Not applicable	
Melting Point/Freezing Point (°C):	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/Wa	ter): Not applicable	
Auto-ignition Temperature ($^{\circ}$ C):	Not available	
Decomposition Temperature (${}^{\circ}C$):	> 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		
Reactivity:	None	
Chemical Stability:	Stable Unstable Unstable	
Possibility of Hazardous Reactions:	None	
Conditions to Avoid:	None	
Incompatible Materials:	Strong oxidizers	
Hazardous Decomposition Products:	<u>CO, CO2</u>	

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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/m³ 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/m³, 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:

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

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 vPvBNo 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: 25 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 %
"Zinc compounds"	40-50
(as Zn)	(0-0.3)

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

<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

 $EU\ OEL:\ Occupational\ exposure\ limits\ at\ Community\ level\ under\ Directive\ 2004/37/EC,\ 98/24/EC,\ 91/322/EEC,\ 2000/39/EC,\ 2006/15/EC\ and\ 2004/37/EC,\ 98/24/EC,\ 91/322/EEC,\ 2000/39/EC,\ 2006/15/EC\ and\ 2004/37/EC,\ 2006/15/EC\ and\ 2004/37/EC\ a$

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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