



## Cover Sheet: Safety Data Sheet (SDS)

The attached SDS is for the information of all persons who store, handle and use this product. The SDS is prepared by the manufacturer of the product and may only be altered on the authorisation of the manufacturer.

For Emergency First Aid advice, please contact:

### **POISONS INFORMATION CENTRE 24 HOUR EMERGENCY NUMBERS**

**WITHIN AUSTRALIA: 13 11 26**

**WITHIN NEW ZEALAND: 0800 764 766 or 0800 POISON**

For further SDS information please refer to the Canon website in your country:

[www.canon.com.au](http://www.canon.com.au)

[www.canon.co.nz](http://www.canon.co.nz)

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Building A, The Park Estate  
5 Talavera Road  
Macquarie Park, NSW, 2113  
Australia  
Telephone (B/hours): +61-2-9805-2000  
Email: [gse@canon.com.au](mailto:gse@canon.com.au)

Canon New Zealand  
28 The Warehouse Way  
Akoranga Business Park  
Northcote, Auckland, 0627  
New Zealand  
Telephone (B/hours): 0800 222 666 (within NZ)  
Email: [gse@canon.com.au](mailto:gse@canon.com.au)

For further information about how to recycle your used toner & ink cartridges or toner & ink containers please visit:

Australia:

<http://www.canon.com.au/About-Canon/Sustainability-Environment/Programs-Partnerships>

New Zealand:

<http://www.canon.co.nz/About-Canon/Sustainability-Environment/Programs-Partnerships>

Latest revision date is outlined in Section 16 - Other Information, otherwise refer to the Date of Issue.

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

**Product Name:** Canon Cartridge 315 ( for Laser Beam Printer )  
**Product Code:** 1975B / R74-8004  
**Company Name:** Canon Inc.  
**Address:** 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan  
**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.  
**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

**SECTION 3 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	45-55	None/ None	Not established	Not established	Not established	Not established
Ferrite including zinc	Confidential	40-50 (as Zn: 0-0.7)	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/m <sup>3</sup> )/%SiO <sub>2</sub>	Not established	Not established	4 mg/m <sup>3</sup> (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 substance under Regulation (EC)1907/2006.

## 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:

CO<sub>2</sub>, 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:

CO<sub>2</sub>, 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.

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 3)

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

Appearance: Black 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

Flash Point(°C): Not applicable

Flammable (Explosive) Limits: Not applicable

Autoignition Temperature(°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

SECTION 10 STABILITY AND REACTIVITY

**Stability:** ☒ Stable  
☐ Unstable

**Conditions to Avoid:** None

**Materials to Avoid:** Strong oxidizers

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>

**Hazardous Polymerization:** ☐ May Occur  
☒ Will Not Occur

**Conditions to Avoid:** None

SECTION 11 TOXICOLOGICAL INFORMATION

**Acute Toxicity:**

**Inhalation:**  
Not available

**Ingestion:**  
Estimate: Rat, LD<sub>50</sub> > 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:**  
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:** 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 INFORMATION

**UN #:** 2807

**UN Shipping Name:** Magnetized material

**UN Classification:** 9

**UN Packing Group:** None

**Marine Pollutant:** ☐ Yes ☒ No Chemical name (wt%):

**Special Precautions:** 13 or more of these products shipped together, by air, are regulated as magnetized material.

## 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

< 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 %
"Zinc compounds" (as Zn)	40-50 (0-0.3)

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 11

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

This Safety Data Sheet was reviewed on the 1st December 2016.

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]

**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

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