

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

**Product name** Canon Cartridge 311 Black  
**Product code(s)** 1660B003  
**Use** Toner for electrophotographic machines

**Details of the supplier of the safety data sheet****Supplier**

Canon Australia Pty Ltd  
Building A, The Park Estate, 5 Talavera Road, Macquarie Park, NSW 2113, Australia  
Email : qse@canon.com.au  
Phone number : (61) 2-9805-2000  
Emergency phone number : 13 11 26 (Within Australia)

Canon New Zealand Limited  
28 The Warehouse Way, Akoranga Business Park, Northcote, Auckland, 0627, New Zealand  
Email : qse@canon.com.au  
Phone number : 0800 222 666 (Within New Zealand)  
Emergency phone number : 0800 764 766 or 0800 POISON (Within New Zealand)

Canon Singapore Pte. Ltd.  
1 Fusionopolis Place, #15-10 Galaxis, Singapore 138522  
Email : cspl\_msds@canon.com.sg  
Phone number : (65) 6799-8888

Canon India Pvt. Ltd.  
7th Floor, Tower B, DLF Epiteome, DLF Phase-3, Gurgaon-122002 Haryana, India  
Phone number : (91) 124-416-0000  
Emergency phone number : (91) 124-416-0180

Canon (China) Co. Ltd  
33F, China Life Financial Center, No.23 Zhenzhi Road, Chaoyang District, Beijing 100026, P.R.China

Canon Korea Business Solutions INC.  
607 Teheran-ro, Gangnam-gu, Korea  
Email : webmaster@canon-bs.co.kr  
Phone number : (82) 1588-2500

**Manufacturer**

Canon Inc.  
30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

**SECTION 2: Hazards identification****Classification of the substance or mixture****GHS Classification**

Not classified

**Label elements****Labelling according to GHS**

**Hazard pictograms**

Not required

**Signal word**

Not required

**Hazard statements**

Not required

**Precautionary statements**

Not required

**Other information**

None

**Other hazards which do not result in classification**

None

**SECTION 3: Composition/information on ingredients****Mixtures**

Chemical name	CAS-No	EC-No	Weight %	GHS Classification	Note to other hazards
Styrene acrylate copolymer	CBI	CBI	75 - 85	None	
Wax	CBI	CBI	5 - 15	None	
Carbon black	1333-86-4	215-609-9	5 - 10	None	(1)
Amorphous silica	7631-86-9	231-545-4	1 - 3	None	(1)

Full texts of Hazard statement(s) are listed in SECTION 16

Note to other hazards : The following substance(s) is (are) marked with (1), (2) and/or (3)

- (1) Substance for which 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

**SECTION 4: First aid measures****Description of first aid measures**

<b>Inhalation</b>	Move to fresh air. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	Rinse mouth. Drink 1 or 2 glasses of water. Get medical attention immediately if symptoms occur.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Flush with plenty of water. Get medical attention immediately if symptoms occur.

**Most important symptoms and effects, both acute and delayed**

<b>Inhalation</b>	None under normal use. Exposure to excessive amounts of dust may cause physical irritation to respiratory tract.
<b>Ingestion</b>	None under normal use.
<b>Skin contact</b>	None under normal use.
<b>Eye contact</b>	None under normal use. May cause slight irritation.

**Chronic effects**

None under normal use. Prolonged inhalation of excessive amounts of dust may cause lung damage.

**Indication of any immediate medical attention and special treatment needed**

None

**SECTION 5: Firefighting measures**

**Extinguishing media**

**Suitable extinguishing media**

Use CO<sub>2</sub>, water, dry chemical, or foam.

**Unsuitable extinguishing media**

None

**Special hazards arising from the substance or mixture**

**Special hazard**

May form explosive mixtures with air.

**Hazardous combustion products**

Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO)

**Advice for firefighters**

**Special protective equipment for firefighters**

None

**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Avoid breathing dust. Avoid contact with skin, eyes and clothing.

**Environmental precautions**

Keep out of waterways.

**Methods and material for containment and cleaning up**

Clean up promptly by scoop or vacuum. If a vacuum cleaner is used, be sure to use a model with dust explosion safety measures. May form explosive mixtures with air.

**Other information**

None

**SECTION 7: Handling and storage**

**Precautions for safe handling**

Avoid breathing dust. Avoid contact with skin, eyes and clothing. Clean contaminated surface thoroughly. Use only with adequate ventilation.

**Conditions for safe storage, including any incompatibilities**

Keep in a dry, cool and well-ventilated place. Keep out of the reach of children. Incompatible with oxidizing agents.

**Specific end uses**

Toner for electrophotographic machines. Obtain special instructions before use.

**SECTION 8: Exposure controls/personal protection**

**Control parameters**

**Exposure limits**

Chemical name	EU OEL	Australia OEL	OSHA PEL	ACGIH TLV
Carbon black 1333-86-4	None	TWA: 3 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> inhalable fraction
Amorphous silica 7631-86-9	None	TWA: 2 mg/m <sup>3</sup> respirable dust	TWA: 20 mppcf : (80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> TWA	None

**Appropriate engineering controls** None under normal use conditions.

**Individual protection measures, such as personal protective equipment**

- Eye/face protection** Not required under normal use.
- Skin protection** Not required under normal use.
- Respiratory protection** Not required under normal use.
- Thermal hazards** Not applicable

**SECTION 9: Physical and chemical properties**

**Information on basic physical and chemical properties**

<b>Appearance</b>	Black ; powder
<b>Odor</b>	Slight odor
<b>Odor threshold</b>	No data available
<b>pH</b>	Not applicable
<b>Melting/freezing point (°C)</b>	100-150 (Softening point)
<b>Boiling point/range (°C)</b>	Not applicable
<b>Flash point (°C)</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not flammable; estimated
<b>Flammability limits in air</b>	
<b>Upper flammability limit</b>	Not applicable
<b>Lower flammability limit</b>	Not applicable
<b>Vapor pressure</b>	Not applicable
<b>Vapor density</b>	Not applicable
<b>Relative density</b>	1.0-1.2
<b>Solubility(ies)</b>	Organic solvent; partly soluble
<b>Partition coefficient: n-octanol/water</b>	Not applicable
<b>Auto-ignition temperature (°C)</b>	No data available
<b>Decomposition temperature (°C)</b>	> 200
<b>Viscosity (mPa s)</b>	Not applicable
<b>Explosive properties</b>	May form explosive mixtures with air
<b>Oxidizing properties</b>	No data available

**Other information**

No data available

**SECTION 10: Stability and reactivity**

**Reactivity**

None

**Chemical stability**

Stable

**Possibility of hazardous reactions**

None

**Conditions to avoid**

None

**Incompatible materials**

Acids, Bases, Oxidizing agents, Reducing agents.

**Hazardous decomposition products**

Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO)

**SECTION 11: Toxicological information**

**Information on toxicological effects**

<b>Acute toxicity</b>	LD50 > 2000 mg/kg (Ingestion)
<b>Skin corrosion/irritation</b>	Non-irritant
<b>Serious eye damage/eye irritation</b>	Transient slight conjunctival irritation only.
<b>Sensitization</b>	Estimate: Non-sensitizing
<b>Germ cell mutagenicity</b>	Ames Test (S. typhimurium, E. coli): Negative
<b>Carcinogenicity</b>	The IARC evaluated carbon black as a Group 2B carcinogen, for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposure to powdered carbon black at levels that induce particle overload of the lung. However, there is a two-year inhalation study of a toner containing carbon black which demonstrated no association between toner exposure and tumor development in rats.
<b>Reproductive toxicity</b>	No data available
<b>STOT - single exposure</b>	No data available
<b>STOT - repeated exposure</b>	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.
<b>Aspiration hazard</b>	No data available

**Other information** No data available

**SECTION 12: Ecological information**

**Toxicity**

**Ecotoxicity effects**

Fish, 96h LL50 > 1000 mg/l (WAF)  
 Crustaceans, 48h EL50 > 1000 mg/l (WAF)  
 Algae, ErL50(0-72h) > 1000 mg/l (WAF)

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).  
 This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**Other adverse effects**

No data available

**SECTION 13: Disposal considerations**

**Waste treatment methods**

DO NOT put toner or a toner container into fire. Heated toner may cause severe burns. DO NOT dispose of a toner container in a plastic crusher. Use a facility with dust explosion prevention measures. Finely dispersed particles form explosive mixtures with air. Dispose of in accordance with local regulations.

**SECTION 14: Transport information**

**UN number** None

**UN proper shipping name** None

**Transport hazard class** None

**Packing group** None

**Environmental hazards** Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.

**Special precautions for users** IATA: Not regulated

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Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Other information Not classified as dangerous goods according to ADG.

## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

(EC) No 1907/2006 Authorisation	Not regulated
(EC) No 1907/2006 Restriction	Not regulated
(EC) No 1005/2009	Not regulated
(EU) 2019/1021	Not regulated
(EU) No 649/2012	Not regulated
Australia Information	Not classified as hazardous according to criteria of Work Health and Safety Regulations 2011.
Other information	None

## SECTION 16: Other information

GHS classification and labelling stated in SECTION 2 and 3 is according to EU Regulation (EC) No 1272/2008 and Australian Model Work Health and Safety Regulations 2011

### **Key literature references and sources for data**

- U.S. Department of Labor, 29CFR Part 1910
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EU) 2019/1021, (EU) No 649/2012
- Safe Work Australia, Model Work Health and Safety Act 2011 and Model Work Health and Safety Regulations 2011
- Australian Code for the Transport of Dangerous Goods by Road & Rail

### **Key or legend to abbreviations and acronyms used in the safety data sheet**

- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- SVHC: Substances of Very High Concern
- EU OEL: Occupational exposure limits at Union level under Directive 2004/37/EC, (EU) 2017/2398 and (EU) 2019/983, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU and (EU) 2017/164.
- 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
- TWA: Time Weighted Average
- STEL: Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- ADG: Australian Dangerous Goods
- CBI: Confidential Business Information

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Revision note : None

### **Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information

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relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.