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

Product identifier

Product name
Canon NPG-47 Black Toner

Product code(s)
2791B001

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 Epitome, 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
SECTION 3: Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>EC-No</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Note to other hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester resin</td>
<td>CBI</td>
<td>CBI</td>
<td>80 - 90</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>215-609-9</td>
<td>1 - 5</td>
<td>None</td>
<td>(1)</td>
</tr>
<tr>
<td>Pigment</td>
<td>CBI</td>
<td>CBI</td>
<td>1 - 5</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Amorphous silica</td>
<td>7631-86-9</td>
<td>231-545-4</td>
<td>1 - 3</td>
<td>None</td>
<td>(1)</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>236-675-5</td>
<td>&lt; 1</td>
<td>None</td>
<td>(1)</td>
</tr>
</tbody>
</table>

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

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

Most important symptoms and effects, both acute and delayed

Inhalation None under normal use. Exposure to excessive amounts of dust may cause physical irritation to respiratory tract.
Ingestion None under normal use.
Skin contact None under normal use.
Eye contact
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 CO₂, 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 (CO₂), 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**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EU OEL</th>
<th>Australia OEL</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td>None</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 3.5 mg/m³</td>
<td>TWA: 3 mg/m³ inhalable fraction</td>
</tr>
<tr>
<td>Amorphous silica 7631-86-9</td>
<td>None</td>
<td>TWA: 2 mg/m³ respirable dust</td>
<td>TWA: 20 mppcf (80)/(% SiO2) mg/m³</td>
<td>None</td>
</tr>
<tr>
<td>Titanium dioxide 13463-67-7</td>
<td>None</td>
<td>TWA: 10 mg/m³ inhalable dust</td>
<td>TWA: 15 mg/m³ total dust</td>
<td>TWA: 10 mg/m³</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Black; powder</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting/freezing point (°C)</td>
<td>85 - 120 (Softening point)</td>
</tr>
<tr>
<td>Boiling point/range (°C)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point (°C)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not flammable; estimated</td>
</tr>
<tr>
<td>Flammability limits in air</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.0 - 1.5</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Organic solvent; partly soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature (°C)</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature (°C)</td>
<td>&gt; 200</td>
</tr>
<tr>
<td>Viscosity (mPa s)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>May form explosive mixtures with air</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**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 (CO₂), Carbon monoxide (CO)

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Estimate: LD50 > 2000 mg/kg (Ingestion)

Skin corrosion/irritation
Estimate: Non-irritant

Serious eye damage/eye irritation
Estimate: Transient slight conjunctival irritation only.

Sensitization
Estimate: Non-sensitizing

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

Carcinogenicity
The IARC evaluated carbon black and titanium dioxide as Group 2B carcinogens, for which there are inadequate human evidences, but sufficient animal evidences. The latter are based upon the evidences such as development of lung tumors in rats receiving chronic inhalation exposure to powdered carbon black and titanium dioxide at levels that induce particle overload of the lung. However, there are inhalation studies of a toner containing carbon black and a toner containing titanium dioxide which demonstrated or suggested no association between toner exposure and tumor development in rats.

Reproductive toxicity
No data available

STOT - single exposure
No data available

STOT - repeated exposure
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/m³. These findings are attributed to "lung overloading", a generic response to excessive
amounts of any dust retained in the lung for a prolonged interval.

Aspiration hazard
No data available

Other information
No data available

SECTION 12: Ecological information

Toxicity

Ecotoxicity effects
Estimate: Fish, 96h LC50 > 100 mg/l
Estimate: Crustaceans, 48h EC50 > 100 mg/l
Estimate: Algae, ErC50(0-72h) > 100 mg/l

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
**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**

Not classified as dangerous goods according to ADG.

**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
- 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
- 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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