

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

Product Name: Canon NPG-16 Black Toner  
 Product Code: 4234A / F42-4101  
 Manufacturer: Canon Inc.  
 30-2,Shimomaruko 3-Chome,Ohta-ku,Tokyo 146-8501, Japan  
 Supplier: Canon Singapore Pte Ltd  
 1 HarbourFront Avenue, #04-01,Keppel Bay Tower, Singapore 098632  
 cspl\_msds@canon.com.sg  
 MSDS #: TN0452-0105

**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

**Hazardous Ingredient(s)**

Chemical Name	CAS #	Weight %	EU Symbol	EU R-Phrase
None				

Chemical Name	USA OSHA PEL	ACGIH TLV
None		

Chemical Name	EU ILV	DFG MAK
None		

**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS - Continued**

**Carcinogen**

Chemical Name	CAS #	Reference
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No component of this toner is listed as human carcinogen or potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.

**Other Ingredient(s)**

Chemical/Generic Name	Weight %
Styrene acrylate copolymer	45 - 55
Iron oxide(CAS No. 1317-61-9)	40 - 50

**SECTION 3 HAZARDS IDENTIFICATION**

**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:** Practically non-toxic based on animal testing. 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.

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**SECTION 4 FIRST AID MEASURES**

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## 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

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**SECTION 5 FIRE FIGHTING MEASURES**

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## 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:	
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))

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**SECTION 5 FIRE FIGHTING MEASURES - Continued**

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## Fire and Explosive Properties - Continued:

Autoflammability: Not applicable

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

Oxidizing Properties: Not available

Hazardous Combustion Products: CO<sub>2</sub>, CO

Other Properties: Not known

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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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.

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**SECTION 7 HANDLING AND STORAGE**

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Handling: Avoid breathing dust.  
Use with adequate ventilation.Storage: Keep out of the reach of children.  
Keep away from oxidizing materials.



**SECTION 10 STABILITY AND REACTIVITY**

Stability:  Stable  Unstable  
 Conditions to Avoid: None

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Materials to Avoid: Strong oxidizers

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

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Hazardous Polymerization:  May Occur  Will Not Occur  
 Conditions to Avoid: None

**SECTION 11 TOXICOLOGICAL INFORMATION**

Acute Toxicity:  
 Inhalation: Not available

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Ingestion: Rat, LD50 > 5000mg/kg

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Eye: Rabbit, transient slight conjunctival irritation only.

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Skin: Rabbit, non irritant.

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Sensitization: Not available

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Mutagenicity: Ames Test (Salmonella typhimurium) : Negative

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Reproductive Toxicity: Not available

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**SECTION 11 TOXICOLOGICAL INFORMATION - Continued**

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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.

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**SECTION 12 ECOLOGICAL INFORMATION**

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Mobility: Not available

Persistence /  
Degradability: Not available

Bioaccumulation: Not available

Ecotoxicity: Not available

Other Adverse  
Effects: Not available

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**SECTION 13 DISPOSAL CONSIDERATION**

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Method of Disposal: DO NOT put toner or toner container into fire; heated toner may cause severe burns. DO NOT shred a toner container holding remaining toner, unless dust-explosion preventing measures are taken. Finely dispersed particles form explosive mixtures in air. Disposal should be subject to federal, state or local laws.

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**SECTION 14 TRANSPORT INFORMATION**

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UN #: None

UN Shipping Name: None

UN Classification: None

UN Packing Group: None

Special Precautions: None

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**SECTION 15 REGULATORY INFORMATION**

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**EU Information:****Information on the Label:**

Symbol &amp; Indication: Not required

R-Phrase: Not required

S-Phrase: Not required

Dangerous Component(s): None

**Specific Provisions in Relation to Protection of Man or the Environment:**

76/769/EEC: Not regulated

(EC)2037/2000: Not regulated

(EEC)2455/92: Not regulated

Others: None

**USA Information:****Information on the Label**

Signal Word: Not required

Hazard warning: Not required

Safety Advice: Not required

Hazardous Component(s): None

**SARA Title III §313:**

Chemical Name

Weight %

Chromium(III) Compounds  
As chromium(III) metal2.0 wt% (Maximum)  
(0.2 wt% (Maximum))**California Proposition 65:**

Chemical Name

Weight %

None



**SECTION 16 OTHER INFORMATION**

**Other Information:**

None

**Literature Reference:**

- 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, 88/379/EEC
- EU Regulation (EC)2037/2000, (EEC)2455/92

**Abbreviations:**

- "EU" stands for European Union.
- "OSHA PEL" stands for PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration.
- "ACGIH TLV" stands for TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
- "EU ILV" stands for Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.
- "DFG MAK" stands for MAK(Maximale Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft.
- "TWA" stands for Time Weighted Average.
- "IARC" stands for International Agency for Research on Cancer.
- "NTP" stands for National Toxicology Program (USA).
- "OSHA HCS" stands for Occupational Safety and Health Act, Hazard Communication Standard.
- "FHSA" stands for Federal Hazardous Substances Act.

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Date of Issue: February 26, 2001

Revised Date: