

MATERIAL SAFETY DATA SHEET

	IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Product Name:	Canon NPG-7 Black Toner for Copier
Product Code:	1377A / F41-9101
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
Use of the Product:	Toner for electrophotographic apparatus

SECTION 2 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
Iron oxide	1317-61-9/ 215-277-5	40-50	None/ None	Not established	Not established	Not established	Not established
Styrene acrylate copolymer	Confidential	35-45	None/ None	Not established	Not established	Not established	Not established
Styrene polymer Amorphous Silica	Confidential 7631-86-9/ 231-545-4	5-15 1-2	None/ None None/ None	Not established 20 mppcf, 80 (mg/m ³)/%SiO ₂	Not established 10 mg/m ³ (TWA)	Not established Not established	Not established 4 mg/m ³ (Inhalable fraction)

CAS#

Reference

< Carcinogen > Chemical Name

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.

SECTION 3 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:

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



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:

CO2, 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:

CO2, 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/m³ (Total dust), 5 mg/m³ (Respirable fraction)ACGIH TLV (TWA):10 mg/m³ (Inhalable fraction), 3 mg/m³ (Respirable fraction)DFG (MAK):4 mg/m³ (Inhalable fraction), 1.5 mg/m³ (Respirable fraction)(Also refer to SECTION 2)

Engineering Controls:

Use adequate ventilation.

Personal Protection Equipment(s):

Respiratory Protection:	Required
	Not Required
Eye/Face Protection:	RequiredNot 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:	1.4-1.6
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:	<u>CO, CO2</u>
Hazardous Polymerization:	☐ May Occur X Will Not Occur
Conditions to Avoid:	None
SECTION 11 TOXICOLOGICA	AL INFORMATION
Acute Toxicity: Inhalation: Not available	
Ingestion: Rat, LD50 > 5000 mg/kg	
Eye: Rabbit, transient slight conjunction	val irritation only.
Skin: Rabbit, non-irritant	
Sensitization: Guinea pig, skin: Non-sensitizing	5
Mutagenicity: Ames Test (S. typhimurium): Ne	gative
Reproductive Toxicity: Not available	
Carcinogenicity: Not available	
respirable-sized particles compar most relevant to potential human	response upon chronic inhalation exposure in rats to a toner enriched in red to commercial toner. No pulmonary change was found at 1 mg/m ³ which is exposure. A minimal to mild degree of fibrosis was noted in 22% of the product 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.



SECTION 12 ECOLOGICAL INFORMATION

Mobility:	Not available
Persistence / Degradability:	Not available
Bioaccumulation:	Not available
Ecotoxicity:	Not available
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 #:	None	
UN Shipping Name	None	
UN Classification:	None	
UN Packing Group	None	
Marine Pollutant:	☐ Yes Chemical name (wt%): ☑ No	
Special Precautions	None	
SECTION 15	REGULATORY INFORMATION	
< EU Information >		
Information on the	e Label:	
Symbol & Indic	ation: Not required	
R-Phrase: Not required		
S-Phrase: Not required		
Dangerous Com	inonent(s).	
None		
Special Precauti Not required	ons under 1999/45/EC Annex V:	
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	e Label:	
Signal Word:	Not required	
Hazard warning Not required	g:	



Safety Advice: Not required		
Hazardous Component(s): None		
SARA Title III §313:		
Chemical Name		Weight %
None		
California Proposition 65:		_
Chemical Name		Weight %
None		
< Canada Information >		_
WHMIS Controlled Product:	Not a controlled product	
< Australia Information >	<u> </u>	
Statement of Hazardous Nature:	Not classified as hazardous according to criteria of	NOHSC.
SECTION 16 OTHER INFORM		
SECTION 16 OTHER INFORM Revised information from the previo		
	ta on similar toner/developer/drum and/or the raw ma	terials of this product.
 World Health Organization International Ag Chemicals to Humans DFG, List of MAK and BAT Values EU Directive 76/769/EEC, 67/548/EEC, 19 EU Regulation (EC)2037/2000, (EC)304/20 Canada Workplace Hazardous Materials Infi Australia National Occupational Health and Abbreviations: EU: European Union. OSHA PEL: PEL(Permissible Exposure Lim ACGIH TLV: TLV(Threshold Limit Value) for EU ILV: Indicative Limit Values for Occupa DFG MAK: MAK(Maximale Arbeitsplatz-Ki TWA: Time Weighted Average. STEL: Short Term Exposure Limit. IARC: International Agency for Research on NTP: National Toxicology Program (USA). OSHA HCS: Occupational Safety and Health FHSA: Federal Hazardous Substances Act (U WHMIS: Workplace Hazardous Materials In NOHSC: National Occupational Health and S The information, data and recommendations s date hereof. The company/manufacturer m responsibility for any reliance thereon. The determination as to its suitability for their pu with applicable Federal, state and local laws nature whatsoever resulting from the use or r NO REPRESENTATIONS OR WARRAM 	003 ormation System Safety Commission's Approved Criteria for Classifying Hazardo it) under Occupational Safety and Health Administration (USA). under American Conference of Governmental Industrial Hygienist tional Exposure under EU Directive 91/322/EEC and 2000/39/EC onzentration) under Deutsche Forschungsgemeinschaft. Cancer. n Act, Hazard Communication Standard (USA). JSA). formation System. Safety Commission. set forth herein (the "Information") are presented in good faith and takes no representations as to the completeness or accuracy of Information is provided upon the condition that the persons rec rposes prior to use. Any use of the Information must be determin s and regulations. In no event will the company/manufacturer b eliance upon the Information. NTIES, EITHER EXPRESS OR IMPLIED, OF MERCHAN THER NATURE ARE MADE WITH RESPECT TO THE INFO	on on the Carcinogenic Risk of us Substances[NOHSC:1008] s. 2. 3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.