

Canon

MSDS #:

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TN1074-0101 1377A / F41-9101

MATERIAL SAFETY DATA SHEET Product Code:

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name:

SECTION 1

Canon NPG-7 Black Toner

Product Code:

1377A / F41-9101

Manufacturer:

Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph# 03-3758-2111

Supplier:

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

Phone:

24 Hr. Emergency CHEMTREC # 1-800-424-9300 1-800-OK-CANON

COMPOSITION/INFORMATION ON INGREDIENTS **SECTION 2**

< 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	Confidential	5-15	None/ None	Not established	Not established	Not established	Not established

< Carcinogen > Chemical Name

CAS# Reference

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.

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

Revised: July 5, 2002

Date of Issue:

March 27, 1992



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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

FIRE FIGHTING MEASURES **SECTION 5**

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.

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EXPOSURE CONTROLS / PERSONAL PROTECTION **SECTION 8 Exposure Guidelines:** USA OSHA PEL (TWA): 15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction) 10 mg/m³ (Inhalable fraction) 3 mg/m³ (Respirable fraction) ACGIH TLV (TWA): 4 mg/m³ (Inhalable fraction) 1.5 mg/m³ (Respirable fraction) DFG (MAK): (Also refer to SECTION 2) **Engineering Controls:** Use adequate ventilation. Personal Protection Equipment(s): Respiratory Protection: Required ■ Not Required ☐ Required **Eye/Face Protection:** ■ Not Required
 ■ ☐ Required **Skin Protection:** ▼ Not Required PHYSICAL AND CHEMICAL PROPERTIES **SECTION 9** Black fine powder Appearance: Slight plastic odor Odor: Not applicable pH: **Boiling Point/Range(°C):** Not applicable 100 - 150 (Softening point) Melting Point/Range(°C): Decomposition Temperature(°C): >200 Flash Point(°C): Not applicable Not applicable Flammable (Explosive) Limits: Autoignition Temperature(°C): Not available Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability Flammability: (Solids)) Can form explosive dust-air mixtures when finely dispersed in air. **Explosive Properties:** Not available **Oxidizing Properties:** Not applicable Vapor Pressure: Not applicable Vapor Density: **Density / Specific Gravity:** 1.4-1.6 Water Solubility: Negligible Partially soluble in toluene and xylene. **Fat Solubility:** Partition Coefficient (n-Octanol/Water): Not applicable Percent Volatile: Negligible Not applicable **Evaporation Rate:** Not applicable Viscosity (mPa s):

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SECTION 10 STABILITY A	ND REACTIVITY				
Stability:	Stable Unstable				
Conditions to Avoid:	None				
Materials to Avoid:	Strong oxidizers				
Hazardous Decomposition Produc	ts: CO, CO2				
Hazardous Polymerization:	☐ May Occur ☑ Will Not Occur				
Conditions to Avoid:	None				
SECTION 11 TOXICOLOGI	CAL INFORMATION				
Acute Toxicity: Inhalation: Not available					
Ingestion: Rat, LD50 > 5000mg/kg					
Eye: Rabbit, transient slight conjur	nctival irritation only.				
Skin: Rabbit, non-irritant					
Sensitization: Guinea pig, skin: Non-sensit	izing				
Mutagenicity: Ames Test (Salmonella typhin	murium) : Negative				
Reproductive Toxicity: Not available					
Carcinogenicity: Not available					
respirable-sized particles com is most relevant to potential h animals at 4 mg/m³, and a mil	ary response upon chronic inhalation exposure in rats to a toner enriched in apared to commercial toner. No pulmonary change was found at 1 mg/m³ which tuman exposure. A minimal to mild degree of fibrosis was noted in 22% of the dot moderate degree of fibrosis was observed in 92% of the animals at 16 ributed to "lung overloading", a generic response to excessive amounts of any prolonged interval.				

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SECTION 12 E	COLOG	ICAL INFORMATION				
Mobility:		Not available				
Persistence / Degrad	lability:	Not available				
Bioaccumulation:		Not available				
Ecotoxicity:		Not available				
Other Adverse Effec	ets:	Not available				
SECTION 13 D	ISDOSA	L CONSIDERATION				
		L CONSIDERATION				
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 or local laws.						
SECTION 14 T	RANSP	ORT INFORMATION				
UN #:	None					
UN Shipping Name:	None					
UN Classification:	None					
UN Packing Group:	None					
1.201	☐ Yes ☑ No	Chemical name (wt%):				
Special Precautions:	None					
SECTION 15 R	REGULA	TORY INFORMATION				
< EU Information >						
Information on the						
Symbol & Indica	ation: N	ot required				
R-Phrase: Not required						
S-Phrase: Not required						
Dangerous Com None	ponent(s	s):				
Special Precautions under 1999/45/EC Annex V: Not required						
	n Relation	on to Protection of Man or the Environment:				
(EC)2037/2000:	Not regu	ilated				
(EEC)2455/92:	Not regu	ılated				
Others:	None					
< USA Information	>					
Information on the Label:						
Signal Word:	Not req	uired				
Hazard warning: Not required						



Safety Advice:

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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 >

Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC.

OTHER INFORMATION **SECTION 16**

Revised information from the previous version:

Entirely revised

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, 1999/45/EC
- EU Regulation (EC)2037/2000, (EEC)2455/92
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]

Abbreviations:

- "EU" stands for European Union.
- "OSHA PEL" stands for PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration(USA).
- "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(USA).
- "FHSA" stands for Federal Hazardous Substances Act(USA).
- "WHMIS" stands for Workplace Hazardous Materials Information System.
- "NOHSC" stands for National Occupational Health and Safety Commission Act 1985.

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