1383A003AA

Canon

MATERIAL SAFETY DATA SHEET

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MSDS #:

Product Code: 1383A / F42-1612

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Product Name:

Canon NPG-12 Black Toner

Product Code:

1383A / F42-1612

Manufacturer:

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

Supplier:

Canon USA, Inc., One Canon Plaza, Lake Success, NY, 11042, USA

Phone #:

1-800-OK-CANON

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

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
Polyester resin	Confidential	40-50	None/ None	Not established	Not established	Not established	Not established
Iron oxide	1317-61-9/ 215-277-5	40-50	None/ None	Not established	Not established	Not established	Not established
Amorphous silica	7631-86-9/ 231-545-4	1-2	None/ None	20mppcf, 80(mg/m³)/%SiO,	10mg/m³(TWA)	Not established	4mg/m³ (Inhalable fraction)

< 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.

Practically non-toxic. 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

July 17, 1996 Date of Issue:

Revised:

August 4, 2003

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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

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.

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SECTION 8 EXPOSURE CO Exposure Guidelines:	NTROLS / PERSONAL PROTECTION
ACGIH TLV (TWA): 10 mg/m	n³ (Total dust), 5 mg/m³ (Respirable fraction) ³ (Inhalable fraction), 3 mg/m³ (Respirable fraction) ³ (Inhalable fraction), 1.5 mg/m³ (Respirable fraction)
Engineering Controls: Use adequate ventilation.	
Personal Protection Equipment(s):	
Respiratory Protection: ☐ Requ ☑ Not I	ired Required
Eye/Face Protection: ☐ Requ ☑ Not 1	ired Required
Skin Protection: ☐ Requ ☑ Not	ired 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:	1.4-1.8
Water Solubility:	Negligible
Fat Solubility:	Partially soluble in toluene and xylene.
Partition Coefficient (n-Octanol/Wa	ter): Not applicable
Percent Volatile:	Negligible
Evaporation Rate:	Not applicable
Viscosity (mPa s):	Not applicable

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SECTION 10 STABILITY AND	REACTIVITY
Stability:	✓ Stable Unstable
Conditions to Avoid:	None
Materials to Avoid:	Strong oxidizers
Hazardous Decomposition Products:	CO, CO2
Hazardous Polymerization:	☐ May Occur ☑ Will Not Occur
Conditions to Avoid:	None
SECTION 11 TOXICOLOGIC	AL INFORMATION
Acute Toxicity: Inhalation: Not available	
Ingestion: Estimate: Rat, LD50 > 5000mg/	kg
Eye: Estimate: Rabbit, transient slight	conjunctival irritation only.
Skin: Estimate: Rabbit, non-irritant	
Sensitization: Guinea pig, skin: Non-sensitizin	g
Mutagenicity: Ames Test (S.typhimurium): Ne	gative
Reproductive Toxicity: Not available	
Carcinogenicity: Not available	
respirable-sized particles compa most relevant to potential human animals at 4 mg/m ³ , and a mild to	response upon chronic inhalation exposure in rats to a toner enriched in ared to commercial toner. No pulmonary change was found at 1 mg/m³ which is a exposure. A minimal to mild degree of fibrosis was noted in 22% of the to moderate degree of fibrosis was observed in 92% of the animals at 16 mg/m³. "lung overloading", a generic response to excessive amounts of any dust retained val.

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SECTION 12 EC	OLOGICAL INFORMATION			
Mobility:	Not available			
Persistence / Degradal	pility: Not available			
Bioaccumulation:	Not available			
Ecotoxicity:	Not available			
Other Adverse Effects	: Not available			
SECTION 12 DIG	PROCELL CONCINED ATION			
	SPOSAL CONSIDERATION			
container, unless du	or toner container into fire; heated toner may cause severe burns. DO NOT shred a toner st-explosion preventing measures are taken. Finely dispersed particles form explosive mixtures ld be subject to federal, state and local laws.			
SECTION 14 TR	ANSPORT INFORMATION			
UN #: N	lone			
UN Shipping Name: N	lone			
UN Classification: N	lone			
UN Packing Group: None				
Marine Pollutant: [Yes Chemical name (wt%):			
Special Precautions:				
SECTION 15 RE	GULATORY INFORMATION			
< EU Information >				
Information on the 1	abel:			
Symbol & Indicat	ion: Not required			
R-Phrase: Not required				
S-Phrase: Not required				
Dangerous Comp None	onent(s):			
Special Precaution Not required	ns under 1999/45/EC Annex V:			
Specific Provisions i	Relation to Protection of Man or the Environment:			
76/769/EEC:	Not regulated			
(EC)2037/2000: 1	Not regulated			
(EC)304/2003: 1	Not regulated			
Others:	None			
< USA Information >				
Information on the l	Label:			
Signal Word:	Not required			
Hazard warning:				
Not required				

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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 contolled product

< Australia Information >

Statement of Hazardous Nature:

Not classified as hazardous according to criteria of NOHSC.

SECTION 16

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, 1999/45/EC
- EU Regulation (EC)2037/2000, (EC)304/2003
- 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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Date of Issue:

July 17, 1996

Revised:

August 4, 2003