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	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Product Identifier	
Product Name:	Canon NPG-4 Black Toner for NP Copier
Product Code:	1375A / F41-8001
Relevant Identifie	d Uses: Toner for electrophotographic apparatus
Details of Supplie Supplier:	r of Safety Data Sheet:
Address:	
Telephone Numb	Der:
E-mail Address:	
Emergency Telep	hone Number:
Manufacturer:	Canon Inc.
Address:	30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan
SECTION 2	HAZARDS IDENTIFICATION
Emergency Overv	iew: Black fine powder, slight plastic odor.
US Regulatory Sta Not classified	atus under OSHA HCS: as hazardous.
US Label Element	ts under OSHA HCS:
Signal Word:	Not required
Hazard Warnii	ng: Not required
Safety Advice:	Not required
Hazardous Con	nponent: Not required
EU Classification Not classified a	under 1999/45/EC: as dangerous.
EU Label Elemen	ts under 1999/45/EC:
Symbol & Indie	cation: Not required
R-Phrase:	Not required
S-Phrase:	Not required
Dangerous Con	nponent: Not required
Applicable Lab	el Elements in accordance with Annex V to 1999/45/EC:
Other Hazards: N	one



SECTION 3

COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: <u>Mixture</u> Ingredient(s):

Chemical Name/ Generic Name	CAS #/ EC #	Concentration/ Concentration			EU Classificatio (EC) No 1	n according to 272/2008	Note to Other
		Range (%)	Symbol/ Indication of Danger	R-Phrase ^{*1}	(EC) No 1 Hazard Class/ Category Code	Hazard Statement ^{*1}	Hazards*2
Iron oxide	1317-61-9/ 215-277-5	40-50	None	None	None	None	
Styrene acrylate copolymer	Confidential	35-45	None	None	None	None	
Styrene polymer	Confidential	5-15	None	None	None	None	
Amorphous silica	7631-86-9/ 231-545-4	1-3	None	None	None	None	(1)

*1 Full texts of R-phrase(s) and Hazard statement(s) are listed in SECTION 16

*2 The following substance(s) is (are) marked with (1), (2) and/or (3)

(1) Substance for which Occupational 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

Carcinogen(s)

No component of this toner is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Part 3 of Annex VI to Regulation (EC) No 1272/2008.



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. **Skin:**

Wash with soap and water. If irritation persists, obtain medical advice.

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.

Most Important Symptoms and Effects, both Acute and Delayed:

Inhalation:

Exposure to excessive amounts of dust may cause physical irritation to respiratory tract.

Ingestion:

Practically non-toxic. Ingestion is a minor route of entry for intended use of this product.

Skin:

May be non-irritant.

Eye:

May cause transient slight irritation.

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.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

None

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media:

CO2, water, dry chemicals

Unsuitable Extinguishing Media:

None

Special Hazards:

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

Hazardous Combustion Products:

<u>CO2, CO</u>

Advice for Fire-fighters:

Wear gloves, glasses, a mask if necessary.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid breathing dust. Wash thoroughly after handling.

Environmental Precautions:

Do not wash away into sewer.

Methods and Material for Containment and 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

Precautions for Safe Handling:

Avoid breathing dust. Wash thoroughly after handling. Use with adequate ventilation.

Conditions for Safe Storage, Including Any Incompatibilities:

Keep out of the reach of children.

Keep away from oxidizing materials.

Specific End Uses:

Toner for electrophotographic apparatus. For more information, please refer to the instruction of this product.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

trol Parameters:	USA OSHA PEL	ACGIH TLV	EU OEL
Product (Toner)	PNOR: TWA 15 mg/m ³ (Total dust), TWA 5 mg/m ³ (Respirable fraction)	PNOS: TWA 10 mg/m ³ (Inhalable fraction), TWA 3 mg/m ³ (Respirable fraction)	Not established
Amorphous silica	20 mppcf, 80 (mg/m ³)/% SiO ₂	Not established	Not established

Exposure Controls:

Engineering Controls:

No special ventilation equipment is needed under intended use of this product.

Individual Protection Measures:

Eye/Face Protection:	☐ Required ☑ Not Required
Skin Protection:	☐ Required ☑ Not Required
Respiratory Protection	: □ Required ⊠ Not Required



SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Ch Appearance:	emical Properties: Black fine powder
Odor:	Slight plastic odor
рН:	Not applicable
Melting Point/Freezing Point (°C):	100-150 (Softening point)
Initial Boiling Point and Boiling Range (°C):	Not applicable
Flash Point(°C):	Not applicable
Evaporation Rate:	Not applicable
Flammability:	Estimate: Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids)) (See SECTION 16)
Upper/Lower Flammable or Explosive Limits:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Relative Density:	1.4-1.6
Water Solubility:	Negligible
Fat Solubility:	Partially soluble in toluene and xylene.
Partition Coefficient (n-Octanol/Wate	er): Not applicable
Auto-ignition Temperature (°C):	Not available
Decomposition Temperature (°C):	> 200
Viscosity (mPa s):	Not applicable
Explosive Properties:	Can form explosive dust-air mixtures when finely dispersed in air.
Oxidizing Properties:	Not available
Other Information:	Not available

Reactivity:	None
Chemical Stability:	⊠ Stable □ Unstable
Possibility of Hazardous Reactions:	None
Conditions to Avoid:	None
Incompatible Materials:	Strong oxidizers
Hazardous Decomposition Products:	<u>CO, CO2</u>



canon	MATERIAL SAFETY DATA S	HEET Product Code: 1375A / F41-8001
ECTION 11 TOXI	COLOGICAL INFORMATION	
Information on Toxicolog	ical Effects:	
Acute Toxicity:		
Inhalation:		
Not available		
Ingestion:		
Rat, $LD50 > 5000$	ng/kg	
Corrosivity/Irritation:		
Skin:		
Rabbit, non-irritant Eye:		
	ght conjunctival irritation only.	
Sensitization:	git conjunctival irritation only.	
Skin:		
	itizing (See SECTION 16)	
Repeated Dose Toxicity		
Muhle et al. reported respirable-sized part is most relevant to p animals at 4 mg/m ³ , mg/m ³ . These findings are a	I pulmonary response upon chronic inhalation ex icles compared to commercial toner. No pulmona otential human exposure. A minimal to mild degr and a mild to moderate degree of fibrosis was ob ttributed to "lung overloading", a generic respons for a prolonged interval.	rry change was found at 1 mg/m ³ which ee of fibrosis was noted in 22% of the served in 92% of the animals at 16
Carcinogenicity: Not available		
Mutagenicity:		
Ames Test (S. typh	imurium): Negative	
Toxicity for Reproducti	on:	
Not available		
Other Information:		
Not available		



MATERIAL SAFETY DATA SHEET

SECTION 12	ECOLOGICAL INFORMATION	
Toxicity:	Fish, 96h LC50 > 100 mg/l	

F1SR, 90n LC30 > 100 mg/1
Crustaceans, $48h EC50 > 100 mg/l$
Algae, ErC50(0-72h) > 100 mg/l

Persistence and Degradability: Not available

Bioaccumulative Potential:	Not available
Mobility in Soil:	Not available
Results of PBT and vPvB Assessment:	No results that the component(s) of this toner meet(s) the PBT or vPvB criteria under Regulation (EC) No 1907/2006.
Other Adverse Effects:	Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

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 TRANSPO	RT INFORMATION		
UN Number:	None		
UN Proper Shipping Name: None			
Transport Hazard Class:			
Packing Group: None			
Environmental Hazards:	'ds: Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.		
Special Precautions for User:	None		
SECTION 15 REGULAT < USA Information > SARA Title III §313: Chemical Name	ORY INFORMATION	Weight %	
None California Proposition 65: Chemical Name		 Weight %	
None < EU Information >		_	

Safety, Health and Environmental Regulations/Legislation:

(EC) No 1907/2006:	Authorisation:	Not regulated
	Restriction:	Not regulated
(EC) No 1005/2009: Not regulated		
(EC) No 850/2004:	Not regulated	
(EC) No 689/2008:	Not regulated	
Others:	None	
Chemical Safety Assessment under (EC) No 1907/2006: Not required		

SECTION 15 REGULATORY INFORMATION (continued)

< Canada Information >

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WHMIS Controlled Product:

< Australia Information >

Not a controlled product.

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

SECTION 16 OTHER INFORMATION

<Revised information from the previous version>

Entirely revised

<Term explanation>

Estimate: Estimate based on data of similar product or the ingredient(s) of this product.

<EU SDS information>

This safety data sheet (SDS) is supplied voluntarily.

Literature References:

- 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

- EU Directive 1999/45/EC

- EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EC) No 850/2004, (EC) No 689/2008

- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]

Abbreviations:

OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA)

FHSA: Federal Hazardous Substances Act (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

SVHC: Substances of Very High Concern

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program (USA)

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

EU OEL: Occupational exposure limits at Community level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC and 2009/161/EU

TWA: Time Weighted Average

STEL: Short Term Exposure Limit

PNOR: Particulates Not Otherwise Regulated

PNOS: Particles (insoluble or poorly soluble) Not Otherwise Specified

WHMIS: Workplace Hazardous Materials Information System

NOHSC: National Occupational Health and Safety Commission

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