

# MATERIAL SAFETY DATA SHEET

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

	COMPANIANIA		
Product Name:	Canon X25 Cartridge for Multi Function Printer		
Product Code:	8489A / R34-6001		
Manufacturer:	Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph # 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
Styrene acrylate copolymer	Confidential	45 - 55	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 - 3	None/ None	20 mppcf, 80 (mg/m³)/%SiO <sub>2</sub>	10 mg/m <sup>3</sup> (TWA)	Not established	4 mg/m <sup>3</sup> (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:**

Low acute toxicity. 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.



#### **EXPOSURE CONTROLS / PERSONAL PROTECTION SECTION 8** Exposure Guidelines:

Exposure Guidennes:			
USA OSHA PEL (	(TWA):	$15 \text{ mg/m}^3$	(Total d

USA OSHA PEL (TWA):	15 mg/m <sup>3</sup> (Total dust), 5 mg/m <sup>3</sup> (Respirable fraction)
ACGIH TLV (TWA):	10 mg/m <sup>3</sup> (Inhalable fraction), 3 mg/m <sup>3</sup> (Respirable fraction)
DFG (MAK):	4 mg/m <sup>3</sup> (Inhalable fraction), 1.5 mg/m <sup>3</sup> (Respirable fraction)
(Also refer to SECTION 2	)

## **Engineering Controls:**

Use adequate ventilation.

### **Personal Protection Equipment(s):**

<b>Respiratory Protection:</b>	Required
	Not Required
Eye/Face Protection:	Required
	Not 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 - 1.8
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		
Conditions to Avoid:	None		
SECTION 11 TOXICOLOGICA	AL INFORMATION		
Acute Toxicity: Inhalation: Not available			
Ingestion: Estimate: Rat, LD50 > 2000 mg/	'kg (See Section 16)		
Eye: Estimate: Rabbit, transient slight	conjunctival irritation only. (See Section 16)		
Skin: Estimate: Rabbit, non-irritant (Se	ee Section 16)		
Sensitization: Estimate: Guinea pig, skin: Non-	sensitizing (See Section 16)		
Mutagenicity: Estimate: Ames Test (S. typhimurium, E. coli): Negative (See Section 16)			
Reproductive Toxicity: Not available			
Carcinogenicity: Not available			
respirable-sized particles compar most relevant to potential human animals at 4 mg/m <sup>3</sup> , and a mild to	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 <sup>3</sup> 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 <sup>3</sup> . 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
<b>Bioaccumulation:</b>	Not available
Ecotoxicity:	Not available
Other Adverse Effects:	Not available

# SECTION 13 DISPOSAL 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 and local laws.

SECTION 14	TRANSPORT INFORMATION
UN #:	2807
UN Shipping Name:	Magnetized material
UN Classification:	9
UN Packing Group:	None
Marine Pollutant:	☐ Yes Chemical name (wt%): ☑ No
Special Precautions:	79 or more of these products shipped together, by air, are regulated as magnetized material.
SECTION 15 F	REGULATORY INFORMATION
< EU Information >	
Information on the	
Symbol & Indica	ation: Not required
R-Phrase: Not required	
S-Phrase: Not required	
Dangerous Com None	ponent(s):
Special Precaution	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 2	>
Information on the	Label:
Signal Word:	Not required
Hazard warning Not required	;:



1		110duet Code: 0407A7 K54-0001
Safety Advice: Not required		
Hazardous Component(s):		
SARA Title III §313:		
Chemical Name		Weight %
None		
California Proposition 65:		
Chemical Name		Weight %
None		
< Canada Information >		
WHMIS Controlled Product:	Not applicable (Manufactured article)	
< Australia Information >		
Statement of Hazardous Nature:	Not classified as hazardous according to criteria	of NOHSC.
SECTION 16 OTHER INFOR	MATION	
Revised information from the previ		
1		
Estimate: Estimate based on test da	ata on similar toner/developer/drum and/or the raw	materials of this product.
<ul> <li>U.S. Department of Health and Human Ser</li> <li>World Health Organization International Age Chemicals to Humans</li> <li>DFG, List of MAK and BAT Values</li> <li>EU Directive 76/769/EEC, 67/548/EEC, 19</li> <li>EU Regulation (EC)2037/2000, (EC)304/2</li> <li>Canada Workplace Hazardous Materials In</li> </ul>	CFR Part 372 n, 16CFR Part 1500 ical Substances and Physical Agents and Biological Exposure In vices National Toxicology Program, Annual Report on Carcinog gency for Research on Cancer, IARC Monographs on the Evalu 999/45/EC 2003	gens ation on the Carcinogenic Risk of
ACGIH TLV: TLV(Threshold Limit Value) EU ILV: Indicative Limit Values for Occup	nit) under Occupational Safety and Health Administration (USA under American Conference of Governmental Industrial Hygie ational Exposure under EU Directive 91/322/EEC and 2000/39 Konzentration) under Deutsche Forschungsgemeinschaft.	nists.

STEL: Short Term Exposure Limit.

IARC: International Agency for Research on Cancer.

NTP: National Toxicology Program (USA).

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

FHSA: Federal Hazardous Substances Act (USA).

WHMIS: Workplace Hazardous Materials Information System. NOHSC: National Occupational Health and Safety Commission.

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