

SECTION 1	DENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE
0	COMPANY/UNDERTAKING
Product Name:	Canon Cartridge 723 Cyan (for Laser Beam Printer)
Product Code:	<u>2643B / R04-9123</u>
Company Name:	Canon Inc.
Address:	30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan
Use of the Product:	Toner for electrophotographic apparatus
SECTION 2 H	IAZARDS IDENTIFICATION
EU Classification:	Not classified as dangerous.
<b>Emergency Overvie</b>	<b>w:</b> Cyan fine powder, slight plastic odor.
Potential Health Eff	fects and Symptoms:
Inhalation:	
Exposure to e	excessive amounts of dust may cause physical irritation to respiratory tract.
Ingestion:	
Low acute tox	xicity. Ingestion is a minor route of entry for intended use of this product.
Eye:	
May cause tra	unsient slight irritation.
Skin:	
May be non-in	rritant.
•	: nalation of excessive amounts of dust may cause lung damage. Use of this product as intended It in inhalation of excessive amounts of dust.
Medical Conditi	ions Generally known to be Aggravated by Exposure:

Not determined

#### **SECTION 3** COMPOSITION/INFORMATION ON INGREDIENTS

#### < Ingredient(s) >

< Higredient(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	75-85	None/ None	Not established	Not established	Not established	Not established
Wax	Confidential	5-10	None/ None	Not established	Not established	Not established	Not established
Pigment	Confidential	1-6	None/ None	Not established	Not established	Not established	Not established
Amorphous silica	7631-86-9/ 231-545-4	1-2	None/ None	20 mppcf, 80 (mg/m <sup>3</sup> )/%SiO <sub>2</sub>	Not established	Not established	4 mg/m <sup>3</sup> (Inhalable fraction)

# < Carcinogen >

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.

# < PBT substance and vPvB substance >

No component of this toner is a PBT or vPvB substance under Regulation (EC) No 1907/2006.



# 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):	$15 \text{ mg/m}^3$ (Total dust), $5 \text{ mg/m}^3$ (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 3)					

# **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

Cyan fine powder			
Slight plastic odor			
Not applicable			
Not applicable			
80-130 (Softening point)			
> 200			
Not applicable			
Not applicable			
Not available			
Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids))			
Can form explosive dust-air mixtures when finely dispersed in air.			
Not available			
Not applicable			
Not applicable			
1.0-1.2			
Negligible			
Partially soluble in toluene and xylene.			
Partition Coefficient (n-Octanol/Water): Not applicable			
Negligible			
Not applicable			
Not applicable			

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Canon		MSDS #:	TC1769-0202
	MATERIAL SAFETY DATA SHEET	Product Code:	2643B / R04-9123
SECTION 10 STABILITY A	ND REACTIVITY		
Stability:	⊠ Stable □ Unstable		
Conditions to Avoid:	None		
Materials to Avoid:	Strong oxidizers		
Hazardous Decomposition Produc	ets: <u>CO, CO2</u>		
Hazardous Polymerization:	☐ May Occur ⊠ Will Not Occur		
Conditions to Avoid:	None		
SECTION 11 TOXICOLOG	ICAL INFORMATION		
Acute Toxicity: Inhalation: Not available			
<b>Ingestion:</b> Estimate: Rat, LD50 > 2000	mg/kg (See SECTION 16)		
Eye: <u>Estimate:</u> Rabbit, transient sl	ight conjunctival irritation only. (See SECTION 16	5)	
Skin: Estimate: Rabbit, non-irritan	t (See SECTION 16)		
Sensitization: <u>Estimate: skin: Non-sensitizi</u>	ng (See SECTION 16)		
Mutagenicity: Ames Test (S. typhimurium,	E. coli): Negative		
Reproductive Toxicity: Not available			
Carcinogenicity: Not available			
Others:			
respirable-sized particles cor is most relevant to potential	hary response upon chronic inhalation exposure in r npared to commercial toner. No pulmonary change numan exposure. A minimal to mild degree of fibro fild to moderate degree of fibrosis was observed in 9	was found at osis was noted	1 mg/m <sup>3</sup> which in 22% of the

# $mg/m^3$ .

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:** Estimate: Fish, 96h LC50 > 100 mg/l, Estimate: Crustaceans, 48h EC50 > 100 mg/l, Estimate: Algae, ErC50(0-72h) > 100 mg/L (See SECTION 16) **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. TRANSPORT INFORMATION **SECTION 14** UN #: None UN Shipping Name: None UN Classification: None UN Packing Group: None Marine Pollutant: □ Yes Chemical name (wt%): $\boxtimes$ No Special Precautions: None **SECTION 15 REGULATORY INFORMATION** < EU Information > Information on the Label: Symbol & Indication: Not required **R-Phrase:** Not required **S-Phrase:** Not required **Dangerous Component(s):** Not required Special Precautions under 1999/45/EC Annex V: Not required Specific Provisions in Relation to Protection of Man or the Environment: (EC) No 1907/2006 Annex XVII (Restrictions): Not regulated (EC) No 2037/2000: Not regulated (EC) No 689/2008: Not regulated **Others:** None

< USA Information >		
Information on the Label under O	SHA:	
Signal Word: Not required		
Hazard warning: Not required		
Safety Advice: Not required		
Hazardous Component(s): Not required		
SARA Title III §313:		
Chemical Name	Weight	· %
None		
California Proposition 65:		
Chemical Name	Weight	t %
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 INFORMATION

Revised information from the previous version: SECTION 3, 12 and 15

Estimate: Estimate based on test data on similar toner/developer/drum and/or the raw materials of this product.

#### 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
- DFG, List of MAK and BAT Values
- EU Directive (EC) No 1907/2006 Annex XVII (Restrictions), 1999/45/EC
- EU Regulation (EC) No 2037/2000, (EC) No 689/2008, (EC) No 1907/2006, (EC) No 1272/2008
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]

# Canon

#### Abbreviations:

EU: European Union.

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 ILV: Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC, 2000/39/EC and 2006/15/EC.

DFG MAK: MAK(Maximale Arbeitsplatz-Konzentration) under Deutsche Forschungsgemeinschaft.

TWA: Time Weighted Average.

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.

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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