

COMPANY/UNDERTAKING Product Name: Canon Cartridge 718 Magenta (for Laser Beam Printer) Product Code: 2660B / R04-8012 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 HAZARDS IDENTIFICATION EU Classification: Not classified as dangerous. Emergency Overview: Magenta 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 Not determined Not determined		MATERIAL SAFETY DATA SHEET Product Code: 2660B / R04-801
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		• • • •
SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS	SECTION 3 (COMPOSITION/INFORMATION ON INGREDIENTS

< Ingredient(s) >

<pre>Chemical Name / Generic Name</pre>	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	1-7	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 ³)/%SiO ₂	Not established	Not established	4 mg/m ³ (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 subtance 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 mg/m ³ (Total dust), 5 mg/m ³ (Respirable fraction)
ACGIH TLV (TWA):	10 mg/m ³ (Inhalable fraction), 3 mg/m ³ (Respirable fraction)
DFG MAK:	4 mg/m^3 (Inhalable fraction), 1.5 mg/m^3 (Respirable fraction)
(Also refer to SECTION 3)

Engineering Controls:

Use adequate ventilation.

Personal Protection Equipment(s):

Respiratory Protection:	
	Not Required
Eye/Face Protection:	Required
	Not Required
Skin Protection:	Required
	Not Required

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Slight plastic oder
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.
: Not applicable
Negligible
Not applicable
Not applicable

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Canon		MSDS #:	TC1747-0203
	MATERIAL SAFETY DATA SHEET	Product Code:	2660B / R04-8012
SECTION 10 STABILITY A	ND REACTIVITY		
Stability:	⊠ Stable □ Unstable		
Conditions to Avoid:	None		
Materials to Avoid:	Strong oxidizers		
Hazardous Decomposition Produ	cts: <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			
Ingestion: Estimate: Rat, LD50 > 2000	mg/kg (See SECTION 16)		
Eye: Estimate: Rabbit, transient s	light conjunctival irritation only. (See SECTION 16	5)	
Skin: Estimate: Rabbit, non-irritar	at (See SECTION 16)		
Sensitization: <u>Estimate: skin: Non-sensitiz</u>	ing (See SECTION 16)		
Mutagenicity: Ames Test (S. typhimurium)	E. coli): Negative		
Reproductive Toxicity: Not available			
Carcinogenicity: Not available			
Others:			
respirable-sized particles co is most relevant to potential	nary response upon chronic inhalation exposure in 1 mpared to commercial toner. No pulmonary change human exposure. A minimal to mild degree of fibro ild to moderate degree of fibrosis was observed in 9	was found at osis was noted	1 mg/m ³ 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 1005/2009: Not regulated (EC) No 689/2008: Not regulated **Others:** None

< USA Information	1 >		
Information on th	e Label under O	SHA:	
Signal Word:	Not required		
Hazard warnin	g:		
Not required			
Safety Advice:			
Not required			
Hazardous Con	nponent(s):		
Not required	-		
SARA Title III §3	13:		
Chemical Na	ame		Weight %
None			
California Propos	ition 65:		
Chemical Na	ame		Weight %
None			
< Canada Informat	ion >		
WHMIS Controll	ed Product:	Not applicable (Manufactured article)	
< Australia Inform	ation >		
Statement of Haza	ardous Nature:	Not classified as hazardous according to criter	ia 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 1005/2009, (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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