

	DENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE 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 H	HAZARDS IDENTIFICATION
EU Classification:	Not classified as dangerous.
Emergency Overvie	W: Magenta 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:	
	xicity. Ingestion is a minor route of entry for intended use of this product.
Eye:	
May cause tra	ansient slight irritation.
Skin:	
May be non-i	rritant.
U	: 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 Condit	ions Generally known to be Aggravated by Exposure:
Not determine	
	COMPOSITION/INFORMATION ON INGREDIENTS
< Ingredient(s) > Chemical Name /	CAS #/ Weight EU Symbol/ USA ACGIH TLV EU ILV DFG MAK
Chemical Name /	CAS #/ Weight EU Symbol/ USA ACGIHILV EU ILV DFG MAK

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	1-7	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)1272/2008.

< PBT substance and vPvB substance >

No component of this toner is a PBT or vPvB subtance under Regulation (EC)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:

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

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Magenta fine powder	
Odor:	Slight plastic odor	
pH:	Not applicable	
Boiling Point/Range(°C):	Not applicable	
Melting Point/Range(°C):	80-130 (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:	1.0-1.2	
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	

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Canon		MSDS #:	TC1747-0101
	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-irritan	t (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 con is most relevant to potential	nary response upon chronic inhalation exposure in r npared 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.



MATERIAL SAFETY DATA SHEET

SECTION 12 ECOLOG	SICAL INFORMATION
Mobility:	Not available
Persistence / Degradability:	Not available
Bioaccumulation:	Not available
Ecotoxicity:	Estimate: Fish, 96h LL50 > 1000 mg/l (WAF) Estimate: Crustaceans, 48h EL50 > 1000 mg/l (WAF) Estimate: Algae, EbL50(72h), ErL50(0-72h) > 1000 mg/l (WAF) (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.

SECTION 14	TRANSPORT INFORMATION		
UN #:	None		
UN Shipping Name	e: None		
UN Classification:	None		
UN Packing Group	: None		
Marine Pollutant:	☐ Yes Chemical name (wt%): ☑ No		
Special Precautions	s:None		
SECTION 15	REGULATORY INFORMATION		
< EU Information :	>		
Information on th	e Label:		
Symbol & India	cation: Not required		
R-Phrase: Not required			
S-Phrase: Not required			
Dangerous Con Not required			
Special Precaut Not required	ions 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)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 Comj Not required	ponent(s):		
SARA Title III §31.	3:		
Chemical Nat	ne		Weight %
None			
California Proposit	ion 65:		
Chemical Nat	ne		Weight %
None			
< Canada Informatio)n >		
WHMIS Controlled	l Product:	Not applicable (Manufactured article)	
	< Australia Information > Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC.		

SECTION 16 OTHER INFORMATION

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 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EC)689/2008, (EC)1907/2006, (EC)1272/2008
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]

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). WAF: Water Accommodated Fraction LL: Lethal Loading rate EL: Effective Loading rate 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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