

	IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE
	COMPANY/UNDERTAKING
Product Name:	Canon Cartridge 708 (for Laser Beam Printer)
Product Code:	<u>0266B / R34-9003</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	HAZARDS IDENTIFICATION
EU Classification:	Not classified as dangerous.
Emergency Overvie	ew: Black fine powder, slight plastic odor.
Potential Health Ef	fects and Symptoms:
Inhalation:	
Exposure to e	excessive amounts of dust may cause physical irritation to respiratory tract.
Ingestion:	
Low acute to	xicity. Ingestion is a minor route of entry for intended use of this product.
Fvo	

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 3 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
Ferrite including zinc	Confidential	40-50 (as Zn: 0-0.7)	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 Annex I to Directive 67/548/EEC.

< 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:	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

			Page 4 of 7
Canon		MSDS #:	TC1323-0301
	MATERIAL SAFETY DATA SHEET	Product Code:	0266B / R34-9003
SECTION 10 STABILIT	Y AND REACTIVITY		
Stability:	⊠ Stable □ Unstable		
Conditions to Avoid:	None		
Materials to Avoid:	Strong oxidizers		
Hazardous Decomposition Pr	oducts: CO, CO2		
Hazardous Polymerization:	☐ May Occur ⊠ Will Not Occur		
Conditions to Avoid:	None		
SECTION 11 TOXICOL	OGICAL INFORMATION		
Acute Toxicity: Inhalation: Not available			
Ingestion: <u>Estimate: Rat, LD50 > 2</u>	2000 mg/kg (See SECTION 16)		
Eye: Estimate: Rabbit, transie	ent slight conjunctival irritation only. (See SECTION 16	5)	
Skin:			
Estimate: Rabbit, non-ir	ritant (See SECTION 16)		
Sensitization: Estimate: skin: Non-sens	sitizing (See SECTION 16)		
Mutagenicity: Ames Test (S. typhimur	ium, E. coli): Negative		
Reproductive Toxicity: Not available			
Carcinogenicity: Not available			
Others:			
Chronic effects:			
respirable-sized particles is most relevant to poten	Imonary response upon chronic inhalation exposure in a s compared to commercial toner. No pulmonary change tial human exposure. A minimal to mild degree of fibro a mild to moderate degree of fibrosis was observed in 9	was found at osis was noted	1 mg/m^3 which in 22% of the

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	GICAL 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 DISPOSA	AL CONSIDERATIONS
Method of Disposal: DO NOT put toner or tone	er container into fire; heated toner may cause severe burns. DO NOT shred a toner

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 #: <u>2807</u>

UN Shipping Name: Magnetized material

UN Classification: 9

UN Packing Group: None

Marine Pollutant: Yes Chemical name (wt%):

🛛 No

Special Precautions:22 or more of these products shipped together, by air, are regulated as magnetized material.

SECTION 15 REGULATORY INFORMATION

< EU Information >	
Information on the	e Label:
Symbol & Indic	ation: Not required
R-Phrase:	
Not required	
S-Phrase:	
Not required	
Dangerous Com	ponent(s):
Not required	
Special Precauti	ons under 1999/45/EC Annex V:
Not required	
Specific Provisions	s 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 > Information on the Label under (05114.		
Signal Word: Not required	USIIA:		
Hazard warning:			
Not required			
Safety Advice:			
Not required			
Hazardous Component(s):			
Not required			
SARA Title III §313:			
-		XX 7- * -1-4 0/	
<u>Chemical Name</u>		Weight %	
"Zinc compounds"		40-50	
(as Zn)		(0-0.3)	
California Proposition 65:			
Chemical Name		Weight %	
None		_	
< Canada Information >			
	Nat anyliashla (Manufasturad articla)		
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 2, 3, 8, 11, 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 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EC)304/2003, (EC)1907/2006
- 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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