

	WATERIAL SAFETY DATA SHEET Product Code: 1153B / F48-0502
	DENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE
	COMPANY/UNDERTAKING
Product Name:	Canon Cartridge 714 for Laser Facsimile
Product Code:	<u>1153B / F48-0502</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	HAZARDS IDENTIFICATION
EU Classification:	Not classified as dangerous
Emergency Overvie	W: Black 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 tr	ansient slight irritation.
Skin: May be non-i	rritant
Chronic Effects	
	: nalation of excessive amounts of dust may cause lung damage. Use of this product as intended
0	It in inhalation of excessive amounts of dust.
	ions Generally known to be Aggravated by Exposure:
Not determine	
SECTION 3 C	COMPOSITION/INFORMATION ON INGREDIENTS
< Ingredient(s) >	
Chemical Name /	CAS # / Weight EU Symbol/ USA ACGIH TLV EU ILV DFG MAK
Generic Name	EC # % R-Phrase OSHA PEL
G, 1,	

Generic Name	EC #	%	R-Phrase	OSHA PEL			
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/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 substance 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

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SECTION 10 STABILITY	AND REACTIVITY		
Stability:	⊠ Stable □ Unstable		
Conditions to Avoid:	None		
Materials to Avoid:	Strong oxidizers		
Hazardous Decomposition Pro	ducts: CO, CO2		
Hazardous Polymerization:	☐ May Occur ⊠ Will Not Occur		
Conditions to Avoid:	None		
SECTION 11 TOXICOLO	OGICAL INFORMATION		
Acute Toxicity: Inhalation: Not available			
Ingestion: Estimate: Rat, LD50 > 20	00 mg/kg (See SECTION 16)		
Eye: Estimate: Rabbit, transien	t slight conjunctival irritation only. (See SECTION 16	5)	
Skin:			
Estimate: Rabbit, non-irri	tant (See SECTION 16)		
Sensitization: Estimate: Guinea pig, skip	n: Non-sensitizing (See SECTION 16)		
Mutagenicity: Estimate: Ames Test (S. t	yphimurium, E. coli): Negative (See SECTION 16)		
Reproductive Toxicity: Not available			
Carcinogenicity: Not available			
Others: Chronic effects: Muhle et al. reported pulr	nonary response upon chronic inhalation exposure in t	rats to a toner (enriched in

Muhle et al. reported pulmonary response upon chronic inhalation exposure in rats to a toner enriched in respirable-sized particles compared to commercial toner. No pulmonary change was found at 1 mg/m³ which is most relevant to potential human exposure. A minimal to mild degree of fibrosis was noted in 22% of the animals at 4 mg/m³, and a mild to moderate degree of fibrosis was observed in 92% of the animals at 16 mg/m³. 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 (Rainbow trout), 96h LL50 > 1000 mg/l (WAF) Estimate: Crustaceans (Daphnia magna), 48h EL50 > 1000 mg/l (WAF) Estimate: Algae (Scenedesmus subspicatus), EbL50(72h), ErL50(0-72h) > 1000 mg/l (WAF) (See SECTION 16)			
Other Adverse Effects: Not available				
SECTION 13 DISPOSA	AL CONSIDERATIONS			
container, unless dust-expl	er container into fire; heated toner may cause severe burns. DO NOT shred a toner losion preventing measures are taken. Finely dispersed particles form explosive hould be subject to federal, state and local laws.			
SECTION 14 TRANSP	ORT INFORMATION			
UN #: 2807				
UN Shipping Name: Magneti	zed material			
UN Classification: 9				
UN Packing Group: None				
Marine Pollutant: Yes	Chemical name (wt%):			

Yes l 🛛 No

Chemical name (wt%):

Special Precautions:91 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	ions under 1999/45/EC Annex V:		
Not required			
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 >			
Information on the Label under (OSHA:		
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 %	
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.			
	DIATION		

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)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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