Canon

Canon		MA	ΓERIAL	SAFETY DA	TA SHEET	Product Code:	2785B
SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING							
Product Name:	Canon NP	G-51 Bla	ck Toner				
Product Code:	2785B	2785B					
Company Name:	Canon Inc.						
Address:	30-2, Shin	omaruko	3-Chome, (Ohta-ku, Tokyo	146-8501, Japai	ı	
Use of the Product:	Toner for e	electroph	otographic a	pparatus			
EU Classification:		sified as	dangerous.				
Emergency Overvie	ew: Black fi	ne powde	er, slight pla	stic odor.			
Potential Health Ef Inhalation: Exposure to	·	-		use physical irri	tation to respira	tory tract.	
Ingestion:							
	xicity. Inges	tion is a 1	ninor route	of entry for inter	nded use of this	product.	
Eye:							
<u>May cause tr</u> Skin:	ansient siign	t irritatio	n.				
May cause sl	ight irritation	n					
Chronic Effects	s: halation of e	xcessive		dust may cause lands of dust.	lung damage. Us	se of this produc	ct as intended
Medical Condit Not determin		ally knov	vn to be Ag	gravated by Ex	posure:		
SECTION 3	COMPOSIT	TION/IN	FORMATI	ON ON INGRI	EDIENTS		
< Ingredient(s) > Chemical Name / Generic Name	CAS # / EC #	Weight %	EU Symbol/ R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
Polyester resin	Confidential	45-55	None/ None	Not established	Not established	Not established	Not established
Ferrite including zinc	Confidential	40-50 (as Zn: 0 -0.4)	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

Appearance:	Black fine powder
Odor:	Slight plastic odor
рН:	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 Prod	lucts: <u>CO, CO2</u>		
Hazardous Polymerization:	☐ May Occur ⊠ Will Not Occur		
Conditions to Avoid:	None		
SECTION 11 TOXICOLO	GICAL INFORMATION		
Acute Toxicity: Inhalation: Not available			
Ingestion: Estimate: Rat, LD50 > 200	00 mg/kg (See SECTION 16)		
Eye: Estimate: Rabbit, transient	slight conjunctival irritation only. (See SECTION 16	5)	
Skin: Estimate: Rabbit, mild irri	tant (See SECTION 16)		
Sensitization: Estimate: skin: Non-sensit	izing (See SECTION 16)		
Mutagenicity: Ames Test (S. typhimurius	m, E. coli): Negative		
Reproductive Toxicity: Not available			
Carcinogenicity: Not available			
Others:			
respirable-sized particles of is most relevant to potentia	conary response upon chronic inhalation exposure in r compared to commercial toner. No pulmonary change al human exposure. A minimal to mild degree of fibro mild to moderate degree of fibrosis was observed in 9	was found at 1 osis was noted in	mg/m ³ which n 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.

Canon	MATERIAL SAFETY DATA SHEET	MSDS #: Product Code:	Page 5 of 7 TN1857-0101 2785B
SECTION 12 ECOLO	OGICAL INFORMATION		
Mobility:	Not available		
Persistence / Degradabilit			
Bioaccumulation:	Not available		
Ecotoxicity:	Fish, 96h LC50 > 100 mg/l, Crustaceans, 48h EC50 > 100 mg/l, Algae, ErC50(0-72h) > 100 mg/l		
Other Adverse Effects:	Not available		
SECTION 13 DISPO	SAL CONSIDERATIONS		
container, unless dust-e	ner container into fire; heated toner may cause severe burn xplosion preventing measures are taken. Finely dispersed p l should be subject to federal, state and local laws.		
SECTION 14 TRAN	SPORT INFORMATION		
UN #: <u>None</u>			
UN Shipping Name: None			
UN Classification: None			
UN Packing Group: None			
Marine Pollutant: \square Ye \boxtimes Ne			
Special Precautions: <u>None</u> SECTION 15 REGU	LATORY INFORMATION		
< EU Information >			
Information on the Labe	1:		
Symbol & Indication:	Not required		
R-Phrase:			
Not required			
S-Phrase: Not required			
Dangerous Componer Not required	t(s):		
Special Precautions un Not required	nder 1999/45/EC Annex V:		
•	lation to Protection of Man or the Environment:		
, ,	nex XVII (Restrictions):		
	egulated		
(EC) No 2037/2000: Not re	egulated		
(EC) No 689/2008: Not re	gulated		
Others: None	guiated		
outers: <u>None</u>			

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< 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 %	0
" Zinc Compounds"		40-50	
(as Zn)		(0-0.2)	
California Proposition 65:			
Chemical Name		Weight 9	/0
None			
< Canada Information >			
WHMIS Controlled Product:	Not applicable (Manufactured article)		
< Australia Information >			
Statement of Hazardous Nature	: Not classified as hazardous according to criteri	a 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 (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 MATERIAL SAFETY DATA SHEET Abbreviations:

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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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