		MA	TERIAL	SAFETY DA	TA SHEET	MSDS #: Product Code:	TC1752-010 2662B / R04-803
	IDENTIFIC COMPANY			UBSTANCE/PI	REPARATION	AND OF THI	E
Product Name:				Laser Beam Pri	inter)		
Product Code:	2662B / R(
Manufacturer:	Canon Inc.	.30-2, Sł	nimomaruko	3-Chome, Ohta	-ku, Tokyo, Japa	n, Ph# 03-3758	-2111.
Supplier:	Canon USA Inc. One Canon Park, Melville, NY 11747, USA						
Phone #:	1-800-OK-				CHEMTREC#	1-800-424-930	0
	HAZARDS	IDENTI	FICATION	I			
EU Classification:			dangerous.				
Emergency Overvi	-			stic odor.			
		-		use physical irri	itation to respira	tory tract.	
Ingestion:	oxicity Inges	tion is a	minor route	of entry for inte	nded use of this	product	
Eye:	JAICITY. Higes		minor route	or entry for inte	nded use of this	product.	
•	ransient sligh	t irritatio	on.				
Skin:							
May be non-	-irritant.						
Chronic Effect	S:						
does not resu Medical Condi	nhalation of eau ult in inhalation itions Genera	on of exc	cessive amou	ints of dust.	lung damage. Us posure:	se of this produ	ct as intended
does not resu Medical Condi Not determin	nhalation of ex ult in inhalation i tions Genera ned	on of exc ally know	cessive amou wn to be Ag	ints of dust. gravated by Ex	posure:	se of this produc	ct as intended
does not resu Medical Condi Not determin SECTION 3	nhalation of ex ult in inhalation i tions Genera ned	on of exc ally know	cessive amou wn to be Ag	ints of dust.	posure:	se of this produc	ct as intended
does not resu Medical Condi Not determin	nhalation of ex ult in inhalation i tions Genera ned	on of exc ally know	cessive amou wn to be Ag	ints of dust. gravated by Ex	posure:	e of this produce	ct as intended
does not resu Medical Condi Not determin SECTION 3 < Ingredient(s) > Chemical Name / Generic Name Styrene acrylate	halation of en ult in inhalatio itions Genera ned COMPOSIT	on of exc ally know TION/IN Weight	vessive amou wn to be Ag FORMATI	ints of dust. gravated by Ex CON ON INGRI USA OSHA PEL	eposure:		DFG MAK
does not resu Medical Condi Not determin SECTION 3 < Ingredient(s) > Chemical Name / Generic Name Styrene acrylate copolymer	halation of example ult in inhalation itions Generation ned COMPOSITI CAS #/ EC #	on of exc ally know TION/IN Weight %	ressive amou wn to be Ag FORMATI EU Symbol/ R-Phrase	Ints of dust. gravated by Ex CON ON INGRI USA OSHA PEL Not established	posure: EDIENTS ACGIH TLV	EU ILV	DFG MAK
does not resu Medical Condi Not determin SECTION 3 < Ingredient(s) > Chemical Name / Generic Name Styrene acrylate copolymer Wax	thalation of example in the second se	on of exc ally know TION/IN Weight % 75-85	IFORMATI EU Symbol/ R-Phrase None/ None None/ None	Ints of dust. gravated by Ex CON ON INGRI USA OSHA PEL Not established	EDIENTS ACGIH TLV Not established Not established	EU ILV Not established	DFG MAK Not established Not established
does not resu Medical Condi Not determin SECTION 3 < Ingredient(s) > Chemical Name / Generic Name Styrene acrylate copolymer Wax Carbon black	tions Generated COMPOSIT CAS # / EC # Confidential 1333-86-4/	on of exc ally know TION/IN Weight % 75-85 5-10	IFORMATI EU Symbol/ R-Phrase None/ None None/ None	Ints of dust. gravated by Ex ON ON INGRI USA OSHA PEL Not established 3.5 mg/m ³ (TWA)	EDIENTS ACGIH TLV Not established Not established	EU ILV Not established Not established	
does not resu Medical Condi <u>Not determin</u> SECTION 3 < Ingredient(s) > Chemical Name /	Analation of example in the second se	on of exc ally know TION/IN Weight % 75-85 5-10 1-6	FORMATI EU Symbol/ R-Phrase None/ None None/ None	Ints of dust. gravated by Ex CON ON INGRI USA OSHA PEL Not established 3.5 mg/m ³ (TWA) 20 mppcf,	posure: EDIENTS ACGIH TLV Not established Not established 3.5 mg/m ³ (TWA)	EU ILV Not established Not established Not established	DFG MAK Not established Not established Not established 4 mg/m ³ (Inhalable

< PBT substance and vPvB substance >

No component of this toner is a PBT or vPvB subtance under Regulation (EC)1907/2006.

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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 manufacturing.

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

Black fine powder
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

			Page 4 of 7
Canon		MSDS #:	TC1752-0101
	MATERIAL SAFETY DATA SHEET	Product Code:	2662B / R04-8034
SECTION 10 STABILITY	AND REACTIVITY		
Stability:	⊠ Stable □ Unstable		
Conditions to Avoid:	None		
Materials to Avoid:	Strong oxidizers		
Hazardous Decomposition Prod	ucts: <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	0 mg/kg (See SECTION 16)		
Eye: Estimate: Rabbit, transient	slight conjunctival irritation only. (See SECTION 16	6)	
Skin:			
Estimate: Rabbit, non-irrita	ant (See SECTION 16)		
Sensitization: Estimate: skin: Non-sensit	izing (See SECTION 16)		
Mutagenicity: Ames Test (S. typhimuriur	n, E. coli): Negative		
Reproductive Toxicity: Not available			
but sufficient animal evide	n black as a Group 2B carcinogen, for which there is nce. The latter is based upon the development of lung e to powdered carbon black at levels that induce part	g tumors in rat	ts receiving

Others:

Chronic effects:

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/m^3 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/m^3 , and a mild to moderate degree of fibrosis was observed in 92% of the animals at 16 mg/m^3 .

However, there is a two-year inhalation study of a toner containing carbon black which demonstrated no

association between toner exposure and tumor development in rats.

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	None
UN Classification:	None
UN Packing Group	None
Marine Pollutant:	☐ Yes Chemical name (wt%): ☑ No
Special Precaution	s:None
SECTION 15	REGULATORY INFORMATION
< EU Information :	>
Information on th	e Label:
Symbol & Indi	cation: Not required
R-Phrase: Not required	
S-Phrase:	
Not required	
Dangerous Con Not required	nponent(s):
Special Precaut	tions under 1999/45/EC Annex V:
Not required	
Specific Provision	s 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:	Not applicable

< USA Information >		
Information on the Label under O	SHA:	
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	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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