

		MA	TERIAL	SAFETY DA	TA SHEET	Product Code:	1980B / R04-6124
	IDENTIFIC COMPANY			UBSTANCE/P	REPARATION	AND OF THI	Ξ
Product Name:	Canon Cart	Canon Cartridge 716 Black (for Laser Beam Printer)					
Product Code:	1980B / R	04-6124					
Company Name:	Canon Eur	opa N.V					
Address:	Bovenkerk	erweg 5	9-61, 1185X	B, The Netherla	unds		
Use of the Product	: <u>Toner for e</u>	electroph	otographic a	pparatus			
SECTION 2	HAZARDS	IDENTI	FICATION	I			
EU Classification:	Not clas	sified as	dangerous.				
Emergency Overvi	ew: Black fi	ne powd	er, slight pla	stic odor.			
Potential Health E	ffects and Sy	mptoms	5:				
Inhalation:							
	excessive an	ounts of	dust may ca	use physical irri	itation to respira	tory tract.	
Ingestion:	ovicity Inges	tion is a	minor route	of entry for inte	nded use of this	product	
Eye:	JAICITY. IIIges	1011 15 a	innoi ioute	or entry for fine	nded use of this	product.	
-	ransient sligh	t irritatio	on.				
Skin:							
May be non-	-irritant.						
-				•	lung damage. Us	se of this produ	ct as intended
Medical Condi Not determin	itions Genera				posure:		
SECTION 3	COMPOSIT	TION/IN	FORMATI	ON ON INGR	EDIENTS		
< 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	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
Carbon black	1333-86-4/ 215-609-9	1-6	None/ None	3.5 mg/m ³ (TWA)	3.5 mg/m ³ (TWA)	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)

			fraction)
< Carcinogen >			
Chemical Name		CAS#	Reference
Carbon black (1-6%)		1333-86-4	IARC: Group 2B. NTP; OSHA; Annex I to 67/548/EEC: Not listed.

< 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

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

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Canon		MSDS #:	TC1662-0102
	MATERIAL SAFETY DATA SHEET	Product Code:	1980B / R04-6124
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: Estimate: Rat, LD50 > 2	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-sen	sitizing (See SECTION 16)		
Mutagenicity:			
Ames Test (S. typhimur	ium, E. coli): Negative		
Reproductive Toxicity: Not available			
Carcinogenicity:			
but sufficient animal evi	bon black as a Group 2B carcinogen, for which there is dence. The latter is based upon the development of lung sure to powdered carbon black at levels that induce part	g tumors in rat	s receiving

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.

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/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	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: <u>None</u>
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 Cor Not required	
Special Precaut Not required	tions under 1999/45/EC Annex V:
Specific Provision	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 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	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)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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