

		IVIA	ILNIAL	SAFEIIDA		Product Code:	0384B / F42-6901
SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING							
Product Name:	Canon C-EXV 14 Black Toner						
Product Code:	<u>0384B / F4</u>	0384B / F42-6901					
Company Name:	Canon Inc.	Canon Inc.					
Address:	30-2, Shim	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 Overview: Black fine powder, slight plastic odor.							
				suc ouor.			
Potential Health Ef	lects and Sy	mptoms					
	excessive an	nounts of	dust may ca	use physical irri	tation to respira	tory tract.	
Ingestion:	visity Incos	tionico	min on nouto	of ontwo for inter	adad waa of thia	nno du ot	
Eve:	xicity. inges	tion is a	minor route	of entry for inter	ided use of this	product.	
May cause tra	ansient sligh	t irritatio	n.				
Skin: May be non-i	rritant.						
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 Condit	ions Genera	ally know	wn to be Ag	gravated by Ex	posure:		
Not determin					-		
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 OEL	DFG MAK
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

< Carcinogen >

Amorphous silica

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.

20mppcf,

(80mg/m³)/%SiO₂

Not established

Not established

Not established

< PBT substance and vPvB substance >

7631-86-9/

231-545-4

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

1-3

None/ None



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
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:	Estimate: Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids)) (See SECTION 16)
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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	MATERIAL SAFETY DATA SHEET	Product Code:	0384B / F42-6901
SECTION 10 STABILITY	AND REACTIVITY		
Stability:	Stable Unstable		
Conditions to Avoid:	None		
Materials to Avoid:	Strong oxidizers		
Hazardous Decomposition Production	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: <u>Estimate: Rabbit, transient</u>	slight conjunctival irritation only. (See SECTION 16	δ)	
Skin:			
Estimate: Rabbit, non-irrita	nt (See SECTION 16)		
Sensitization: Estimate: skin: Non-sensiti	zing (See SECTION 16)		
Mutagenicity: Estimate: Ames Test (S. ty	phimurium, E. coli): Negative (See SECTION 16)		
Reproductive Toxicity: Not available			
Carcinogenicity: Not available			
Others:			
Chronic effects:			
respirable-sized particles construction is most relevant to potentia	onary response upon chronic inhalation exposure in r ompared to commercial toner. No pulmonary change I human exposure. A minimal to mild degree of fibro nild 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	DGICAL 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 Nam	e: None			
UN Classification:	None			
UN Packing Grou	p : None			
Marine Pollutant:	☐ Yes Chemical name (wt%):☑ No			
Special Precaution	ns:None			
SECTION 15	REGULATORY INFORMATION			
< EU Information	>			
Information on t	he Label:			
Symbol & Ind	ication: Not required			
R-Phrase:				
Not required	1			
S-Phrase:				
Not required	1			
Dangerous Co Not required				
Special Precautions under 1999/45/EC Annex V:				
Not required	1			
Specific Provision	ns in Relation to Protection of Man or the Environment:			
(EC) No 1907/2	2006 Annex XVII (Restrictions):			
	Not regulated			
(EC) No 1005/2	(EC) No 1005/2009:			
	Not regulated			
(EC) No 689/2	008:			
() 110 000/	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 Com	ponent(s):		
SARA Title III §31	3:		
Chemical Na	me		Weight %
None			
California Proposit	tion 65:		
Chemical Na	me		Weight %
None			
< Canada Informatio	o n >		
WHMIS Controlled	d Product:	Not a controlled product	
< Australia Informat Statement of Hazar		Not classified as hazardous according to criteria of	NOHSC.

SECTION 16 OTHER INFORMATION

Revised information from the previous version: SECTION 2, 3, 8, 9, 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 1999/45/EC
- EU Regulation (EC) No 1005/2009, (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]



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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 OEL: Occupational exposure limits at Community level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC and 2009/161/EU 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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