

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier:			
Product Name:	Canon C-EXV 39 Black Toner		
Product Code:	4792B / F42-8992		
Relevant Identified Us	Ses: Toner for electrophotographic apparatus		
Details of Supplier of S Supplier:	Safety Data Sheet: Canon Europa NV		
Address:	Bovenkerkerweg 59, 1185XB Amstelveen, The Nederlands		
Telephone Number:	+31 20 5458545, +31 20 5458222		
E-mail Address:	www.canon-europe.com, ceu-Reach@canon-europe.com		
Emergency Telephone	Number: DENMARK: +45 82 12 12; GERMANY: +49 30 19240, +49 761 19240; BELGIUM & NETHERLANDS: +32 70 245 245; FRANCE: +33 1 40 05 48 48; UK only 0845 4647; FINLAND: +358 9 471 977; SWEDEN: +46 8 33 12 31		
Manufacturer:	Canon Inc.		
Address:	30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan		
US Label Elements un	der OSHA HCS:		
Signal Word:	Not required		
Hazard Warning:	Not required		
Safety Advice:	Not required		
Hazardous Compon	ent: Not required		
EU Classification under Not classified as date			
EU Label Elements un			
Symbol & Indication			
R-Phrase:	Not required		
S-Phrase:	Not required		
Dangerous Compon	ent: Not required		
Applicable Label El Not required	ements in accordance with Annex V to 1999/45/EC:		
Other Hazards: None			



MATERIAL SAFETY DATA SHEET

Page 2 of 8 MSDS #: TN1948-0104 Product Code: 4792B / F42-8992

SECTION 3

COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: <u>Mixture</u> Ingredient(s):

Chemical Name/ CAS #/ Concentration/ EU Classification according to EU Classification according to Note to (EC) No 1272/2008 Hazard Class/ | Hazar Other Generic Name EC # Concentration 67/548/EEC Symbol/ R-Phrase^{*1} Hazard Hazards* Range (%) **Category Code** Statement* **Indication of Danger** Polyester resin Confidential 45-55 None None None None Ferrite including zinc Confidential 40-50 None None None None (as Zn: 0-0.4) Amorphous silica 7631-86-9/ 1-3 None None None None (1) 231-545-4 13463-67-7/ Titanium dioxide < 1 None None None None (1) 236-675-5

*1 Full texts of R-phrase(s) and Hazard statement(s) are listed in SECTION 16

*2 The following substance(s) is (are) marked with (1), (2) and/or (3)

(1) Substance for which Occupational Exposure Limit(s) is (are) established (See SECTION 8)

(2) PBT substance or vPvB substance under Regulation (EC) No 1907/2006

(3) Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 1907/2006

Carcinogen(s)

Titanium dioxide (<1%)

13463-67-7 IARC: Group 2B.

NTP; OSHA; Part 3 of Annex VI to Regulation (EC) No 1272/2008: Not listed.



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. **Skin:**

Wash with soap and water. If irritation persists, obtain medical advice.

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.

Most Important Symptoms and Effects, both Acute and Delayed:

Inhalation:

Exposure to excessive amounts of dust may cause physical irritation to respiratory tract.

Ingestion:

Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.

Skin:

May be non-irritant.

Eye:

May cause transient slight irritation.

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.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

None

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media:

CO2, water, dry chemicals

Unsuitable Extinguishing Media:

None

Special Hazards:

Can form explosive dust-air mixtures when finely dispersed in air.

Hazardous Combustion Products:

<u>CO2, CO</u>

Advice for Fire-fighters:

Wear gloves, glasses, a mask if necessary.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid breathing dust. Wash thoroughly after handling.

Environmental Precautions:

Do not wash away into sewer.

Methods and Material for Containment and 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

Precautions for Safe Handling:

Avoid breathing dust. Wash thoroughly after handling. Use with adequate ventilation.

Conditions for Safe Storage, Including Any Incompatibilities:

Keep out of the reach of children.

Keep away from oxidizing materials.

Specific End Uses:

Toner for electrophotographic apparatus. For more information, please refer to the instruction of this product.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

ontrol Parameters:	USA	ACGIH TLV	EU OEL	DFG MAK
	OSHA PEL			
Product (Toner)	PNOR:	PNOS:	Not established	Dust:
	TWA 15 mg/m ³	TWA 10 mg/m ³		4 mg/m^3
	(Total dust),	(Inhalable fraction),		(Inhalable fraction),
	TWA 5 mg/m ³	TWA 3 mg/m ³		1.5 mg/m^3
	(Respirable fraction)	(Respirable fraction)		(Respirable fraction
Amorphous silica	20 mppcf, 80 (mg/m ³)/%SiO ₂	Not established	Not established	Not established
Titanium dioxide	TWA 15 mg/m ³ (Total dust)	TWA 10 mg/m ³	Not established	Not established

Exposure Controls:

Engineering Controls:

No special ventilation equipment is needed under intended use of this product.

Individual Protection Measures:

Eye/Face Protection:	☐ Required ☑ Not Required
Skin Protection:	☐ Required ☑ Not Required
Respiratory Protection :	Required 🛛 Not Required



SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Ch Appearance:	emical Properties: Black fine powder
Odor:	Slight plastic odor
рН:	Not applicable
Melting Point/Freezing Point (°C):	100-150 (Softening point)
Initial Boiling Point and Boiling Range (°C):	Not applicable
Flash Point(°C):	Not applicable
Evaporation Rate:	Not applicable
Flammability:	Estimate: Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids)) (See SECTION 16)
Upper/Lower Flammable or Explosive Limits:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Relative Density:	1.4-1.8
Water Solubility:	Negligible
Fat Solubility:	Partially soluble in toluene and xylene.
Partition Coefficient (n-Octanol/Wate	er): Not applicable
Auto-ignition Temperature (°C):	Not available
Decomposition Temperature (°C):	> 200
Viscosity (mPa s):	Not applicable
Explosive Properties:	Can form explosive dust-air mixtures when finely dispersed in air.
Oxidizing Properties:	Not available
Other Information:	Not available

Reactivity:	None		
Chemical Stability:	⊠ Stable □ Unstable		
Possibility of Hazardous Reactions:	None		
Conditions to Avoid:	None		
Incompatible Materials:	Strong oxidizers		
Hazardous Decomposition Products:	<u>CO, CO2</u>		



SECTION 11 TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:

Acute Toxicity:

Inhalation:

Not available

Ingestion:

Estimate: Rat, LD50 > 2000 mg/kg (See SECTION 16)

Corrosivity/Irritation:

Skin: Est

Estimate: Rabbit, non-irritant (See SECTION 16)

Eye:

Estimate: Rabbit, transient slight conjunctival irritation only. (See SECTION 16)

Sensitization:

Skin:

Estimate: Non-sensitizing (See SECTION 16)

Repeated Dose Toxicity:

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/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.

Carcinogenicity:

The IARC evaluated titanium dioxide as a Group 2B carcinogen, for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the evidence such as development of lung tumors in rats receiving chronic inhalation exposure to powdered titanium dioxide at levels that induce particle overload of the lung.

However, there is an inhalation study of a toner containing titanium dioxide which suggested no association between toner exposure and tumor development in rats.

Mutagenicity:

Ames Test (S. typhimurium, E. coli): Negative

Toxicity for Reproduction:

Not available

Other Information:

Not available



MATERIAL SAFETY DATA SHEET

SECTION 12	ECOLOGICAL INFORMATION	
Toxicity:	Fish, 96h LC50 > 100 mg/l	
	Crustaceans, $48h EC50 > 100 mg/l$	
	Algae, ErC50(0-72h) > 100 mg/l	
Persistence and	d Degradability: Not available	

Tensistence and Degradability. Not available			
Bioaccumulative Potential:	Not available		
Mobility in Soil:	Not available		
Results of PBT and vPvB Assessment:	No results that the component(s) of this toner meet(s) the PBT or vPvB criteria under Regulation (EC) No 1907/2006.		
Other Adverse Effects:	Not available		

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

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 TRA	NSPORT INFOR	RMATION	
UN Number:	None		
UN Proper Shipping N	ame: None		
Transport Hazard Cla	ss: None		
Packing Group:	None		
Environmental Hazaro		fied as environmentally hazardous under UN Moollutant under IMDG Code.	del Regulations and
Special Precautions for	r User: None		
SECTION 15 REG < USA Information > SARA Title III §313:	ULATORY INFO	ORMATION	
Chemical Name			Weight %
" Zinc Compound	ls"		40-50
(as Zn)			(0-0.2)
California Proposition <u>Chemical Name</u>			Weight %
None			
< EU Information > Safety, Health and Env	vironmental Regu	ulations/Legislation:	
(EC) No 1907/2006:	Authorisation:	Not regulated	
	Restriction:	Not regulated	
(EC) No 1005/2009:	Not regulated		
(EC) No 850/2004:	Not regulated		
(EC) No 689/2008:	Not regulated		
Others:	None		

Chemical Safety Assessment under (EC) No 1907/2006: Not required



SECTION 15 REGULATORY INFORMATION (continued)

< 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

<Term explanation>

Estimate: Estimate based on data of similar product or the ingredient(s) 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 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EC) No 850/2004, (EC) No 689/2008
 - Canada Workplace Hazardous Materials Information System
 - Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]

Abbreviations:

OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA)

FHSA: Federal Hazardous Substances Act (USA)

PBT: Persistent, Bioaccumulative and Toxic

- vPvB: very Persistent and very Bioaccumulative
- SVHC: Substances of Very High Concern

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program (USA)

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

PNOR: Particulates Not Otherwise Regulated

PNOS: Particles (insoluble or poorly soluble) Not Otherwise Specified

WHMIS: Workplace Hazardous Materials Information System

NOHSC: National Occupational Health and Safety Commission

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