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

	IF AN I/UNDER IARING					
Product Identifier:						
Product Name:	Canon C-EXV 34 Cyan Drum Unit					
Product Code:	<u>3787B / F44-0612</u>					
Relevant Identified Us	es: Toner for electrophotographic apparatus					
Details of Supplier of S	Safety Data Sheet:					
Supplier:	Canon Europa NV					
	Bovenkerkerweg 59, 1185XB Amstelveen, The Nederlands					
Telephone Number:	lephone Number: +31 20 5458545, +31 20 5458222					
E-mail Address:						
Emergency Telephone	DENMARK: +45 82 12 12 12; GERMANY: +49 30 19240, +49 761 19240; Number: 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					
SECTION 2 HAZ	ZARDS IDENTIFICATION					
Emergency Overview:	Cyan fine powder, slight plastic odor.					
US Regulatory Status (under OSHA HCS:					
Not classified as has	zardous.					
US Label Elements une	der OSHA HCS:					
Signal Word:	Not required					
Hazard Warning:	Not required					
Safety Advice:	Safety Advice: Not required					
Hazardous Compon	ent: Not required					
EU Classification unde	er 1999/45/EC:					
Not classified as dar	ngerous.					
EU Label Elements un	der 1999/45/EC:					
Symbol & Indication	n: Not required					
R-Phrase:	Not required					
S-Phrase:	Not required					
Dangerous Compone	ent: Not required					
Applicable Label Ele Not required	ements in accordance with Annex V to 1999/45/EC:					
Other Hazards: None						



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SECTION 3

COMPOSITION/INFORMATION ON INGREDIENTS

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

Chemical Name/ Generic Name	CAS #/ EC #	Concentration/ Concentration Range (%)			EU Classification according to (EC) No 1272/2008 Hazard Class/ Hazard		Note to Other
Generic Name			Symbol/ Indication of Danger	R-Phrase ^{*1}	Hazard Class/ Category Code	Hazard Statement ^{*1}	Hazards*2
Polyester resin	Confidential	80-90	None	None	None	None	
Wax	Confidential	1-6	None	None	None	None	
Pigment	Confidential	1-5	None	None	None	None	
Amorphous silica	7631-86-9/ 231-545-4	1-3	None	None	None	None	(1)
Titanium dioxide	13463-67-7/ 236-675-5	< 1	None	None	None	None	(1)

*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) Chemical Name

 CAS#
 Reference

 13463-67-7
 IARC: Gr

Titanium dioxide (<1%)

IARC: Group 2B. NTP; OSHA; Part 3 of Annex VI to Regulation (EC) No 1272/2008: Not listed.



MATERIAL SAFETY DATA SHEET Product Code: 3787B / F44-0612
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:
Instation: 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

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

Cyan fine powder Slight plastic odor Not applicable 85-120 (Softening point) Not applicable
Not applicable 85-120 (Softening point) Not applicable
85-120 (Softening point) Not applicable
Not applicable
Not applicable
Not applicable
Estimate: Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids)) (See SECTION 16)
Not applicable
Not applicable
Not applicable
1.0-1.5
Negligible
Partially soluble in toluene and xylene.
Not applicable
Not available
> 200
Not applicable
Can form explosive dust-air mixtures when finely dispersed in air.
Not available
Not available
-

None				
⊠ Stable □ Unstable				
None				
None				
Strong oxidizers				
Hazardous Decomposition Products: CO, CO2				



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

Eye:

Syc.

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: Estimate: Fish, 96h LC50 > 100 mg/l Estimate: Crustaceans, 48h EC50 > 100 mg/l Estimate: Algae, ErC50(0-72h) > 100 mg/l (See SECTION 16) Persistence and Degradability: Not available Not available **Bioaccumulative Potential:** Mobility in Soil: Not available **Results of PBT and vPvB** No results that the component(s) of this toner meet(s) the PBT or vPvB criteria **Assessment:** 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 TRANSPOR	RT INFOR	MATION		
UN Number:	2807 Magnetized material			
UN Proper Shipping Name:				
Transport Hazard Class: 9				
Packing Group: None				
Environmental Hazards:	Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.			
Special Precautions for User:	9 or more of these products shipped together, by air, are regulated as magnetized material.			
SECTION 15 REGULATO < USA Information > SARA Title III §313: Chemical Name	JKY INFU	JKMA HUN	Weight %	
None			C	
California Proposition 65: Chemical Name			Weight %	
None				
< EU Information > Safety, Health and Environm	ental Regu	lations/Legislation:		
(EC) No 1907/2006: Auth	orisation:	Not regulated		
Rest	riction:	Not regulated		
(EC) No 1005/2009: Not reg	gulated			
(EC) No 850/2004: Not reg	gulated			
(EC) No 689/2008: Not reg	gulated			
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
 - 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

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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