Canon		MA	TERIAL	SAFETY DA	TA SHEET	MSDS #: Product Code:	Page 1 of 7 TN1542-010 0437B / F42-7012
SECTION 1	IDENTIFIC	ATION	OF THE S	UBSTANCE/PI	REPARATION	AND OF TH	E
	COMPANY						_
Product Name:	Canon C-E	XV 20 0	Cyan Toner				
Product Code:	0437B / F42-7012						
Company Name:	Canon Europa N.V						
Address:	Bovenkerk	erweg 5	9-61, 1185 X	B, Amstelveen,	The Netherland	ls	
Use of the Produc	t: <u>Toner for e</u>	lectroph	otographic a	pparatus			
SECTION 2	COMPOSIT	ION/IN	FORMATI	ON ON INGRI	EDIENTS		
< Ingredient(s) >							
Chemical Name /	CAS #/	Weight	EU Symbol/	USA	ACGIH TLV	EU ILV	DFG MAK
Generic Name	EC #	%	R-Phrase	OSHA PEL			
Polyester resin	Confidential	80-90	None / None	Not established	Not established	Not established	Not established
Pigment	Confidential	1-5	None / None	Not established	Not established	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)
Wax	Confidential	1-6	None / None	Not established	Not established	Not established	Not established
Chemical Name No component of this to carcinogen in IARC Mo Directive 67/548/EEC.					Reference		
Directive 07/348/EEC.							
OT OTTONIA	HAZARDS	IDENTI	FICATION				
SECTION 3							
EU Classification:							
EU Classification: Not classified a	s dangerous.						
EU Classification: <u>Not classified a</u> Emergency Overv	s dangerous.	tic odor					
EU Classification: Not classified a Emergency Overv Cyan fine power	s dangerous. iew: ler, slight plas						
EU Classification: <u>Not classified a</u> Emergency Overv <u>Cyan fine powe</u> Potential Health E	s dangerous. iew: ler, slight plas						
EU Classification: <u>Not classified a</u> Emergency Overv Cyan fine power Potential Health E Inhalation:	s dangerous. iew: ler, slight plas affects and Sy	mptoms	:	use physical irrit	tation to respira	tory tract.	
EU Classification: <u>Not classified a</u> Emergency Overv <u>Cyan fine powe</u> Potential Health E Inhalation: <u>Exposure to</u> Ingestion:	s dangerous. iew: der, slight plas ffects and Sy excessive am	mptoms ounts of	: dust may ca			•	
EU Classification: <u>Not classified a</u> Emergency Overv <u>Cyan fine powe</u> Potential Health E Inhalation: <u>Exposure to</u> Ingestion:	s dangerous. iew: der, slight plas ffects and Sy excessive am	mptoms ounts of	: dust may ca	use physical irrit		•	
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EU Classification: <u>Not classified a</u> Emergency Overv <u>Cyan fine powo</u> Potential Health E Inhalation: <u>Exposure to</u> Ingestion: <u>Low acute t</u> Eye: <u>May cause t</u> Skin: <u>May be non</u> Chronic Effec Prolonged ir <u>does not res</u> Medical Cond	s dangerous. iew: ler, slight plas offects and Sy excessive am oxicity. Ingest cransient slight -irritant. ts: nhalation of ex ult in inhalatio itions Genera	mptoms ounts of ion is a irritatio ccessive	it dust may ca minor route of n. amounts of o cessive amou	of entry for inter	nded use of this ung damage. Us	product.	ct as intended
EU Classification: Not classified a Emergency Overv Cyan fine powerv Cyan fine powerv Potential Health E Inhalation: Exposure to Ingestion: Low acute t Eye: May cause t Skin: May be non Chronic Effec Prolonged in does not res	s dangerous. iew: ler, slight plas offects and Sy excessive am oxicity. Ingest cransient slight -irritant. ts: nhalation of ex ult in inhalatio itions Genera	mptoms ounts of ion is a irritatio ccessive	it dust may ca minor route of n. amounts of o cessive amou	of entry for inter dust may cause l nts of dust.	nded use of this ung damage. Us	product.	ct as intended
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EU Classification: <u>Not classified a</u> Emergency Overv <u>Cyan fine powo</u> Potential Health E Inhalation: <u>Exposure to</u> Ingestion: <u>Low acute t</u> Eye: <u>May cause t</u> Skin: <u>May be non</u> Chronic Effec Prolonged ir <u>does not res</u> Medical Cond	s dangerous. iew: ler, slight plas offects and Sy excessive am oxicity. Ingest cransient slight -irritant. ts: nhalation of ex ult in inhalatio itions Genera	mptoms ounts of ion is a irritatio ccessive	it dust may ca minor route of n. amounts of o cessive amou	of entry for inter dust may cause l nts of dust.	nded use of this ung damage. Us	product.	ct as intended

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 2)

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:	Cyan fine powder		
Odor:	Slight plastic odor		
pH:	Not applicable		
Boiling Point/Range(°C):	Not applicable		
Melting Point/Range(°C):	85-120 (Softening point)		
Decomposition Temperature(°C):	>200		
Flash Point(°C):	Not applicable		
Flammable (Explosive) Limits:	Not applicable		
Autoignition Temperature(°C):	Not available		
Flammability:	Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids))		
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:	1.0-1.5		
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		

			Page 4 of 7
Canon		MSDS #:	TN1542-0101
	MATERIAL SAFETY DATA SHEET	Product Code:	0437B / F42-7012
SECTION 10 STABILITY	Y AND REACTIVITY		
Stability:	Stable Unstable		
Conditions to Avoid:	None		
Materials to Avoid:	Strong oxidizers		
Hazardous Decomposition Pro	ducts: <u>CO</u> , CO2		
Hazardous Polymerization:	☐ May Occur ⊠ Will Not Occur		
Conditions to Avoid:	None		
SECTION 11 TOXICOLO	OGICAL INFORMATION		
Acute Toxicity: Inhalation: Not available			
Ingestion: Estimate: Rat, LD50 > 20	000 mg/kg (See SECTION 16)		
Eye: Estimate: Rabbit, transier	nt slight conjunctival irritation only. (See SECTION	16)	
Skin: Estimate: Rabbit, non-irri	itant (See SECTION 16)		
Sensitization: Estimate: Guinea pig, ski	n: Non-sensitizing (See SECTION 16)		
Mutagenicity: Ames Test (S. typhimuriu	ım, E. coli): Negative		
Reproductive Toxicity: Not available			
Carcinogenicity: Not available			
respirable-sized particles is most relevant to potent animals at 4 mg/m ³ , and a mg/m ³ .	nonary response upon chronic inhalation exposure ir compared to commercial toner. No pulmonary chang ial human exposure. A minimal to mild degree of fib a mild to moderate degree of fibrosis was observed ir	ge was found a rosis was note 1 92% of the an	t 1 mg/m ³ which d in 22% of the nimals at 16
retained in the lung for a	ted to "lung overloading", a generic response to exce prolonged interval.	ssive amounts	or any dust



SECTION 12 ECOLOG	GICAL INFORMATION
Mobility:	Not available
Persistence / Degradability:	Not available
Bioaccumulation:	Not available
Ecotoxicity:	Estimate: Fish (Rainbow trout), 96h LL50 > 1000 mg/l (WAF) Estimate: Crustaceans (Daphnia magna), 48h EL50 > 1000 mg/l (WAF) Estimate: Algae (Scenedesmus subspicatus), 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	FRANSPORT INFORMATION
UN #:	None
UN Shipping Name	:None
UN Classification:	None
UN Packing Group	None
Marine Pollutant:	☐ Yes Chemical name (wt%):☑ No
Special Precautions	:None
SECTION 15	REGULATORY INFORMATION
< EU Information >	
Information on the	e Label:
Symbol & Indic	ation: Not required
R-Phrase: Not required	
S-Phrase: Not required	
Dangerous Com Not required	aponent(s):
Special Precauti Not required	ions under 1999/45/EC Annex V:
Specific Provisions	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 1/ OTHER INFOR	MATION	

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
- 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.

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