

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name:** Canon C-EXV 21 Cyan Drum Unit  
**Product Code:** 0457B / F43-9612  
**Company Name:** Canon Europa N.V.  
**Address:** Bovenkerkerweg 59-61, 1185 XB, Amstelveen, The Netherlands  
**Use of the Product:** Toner for electrophotographic apparatus

### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

#### < Ingredient(s) >

Chemical Name / Generic Name	CAS # / EC #	Weight %	EU Symbol/ R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
Polyester resin	Confidential	85-95	None/ None	Not established	Not established	Not established	Not established
Pigment	Confidential	1-4	None/ None	Not established	Not established	Not established	Not established

#### < Carcinogen >

Chemical Name	CAS #	Reference
No component of this toner is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Annex I to Directive 67/548/EEC.		

### SECTION 3 HAZARDS IDENTIFICATION

#### EU Classification:

Not classified as dangerous.

#### Emergency Overview:

Cyan fine powder, slight plastic odor.

#### Potential Health Effects and Symptoms:

##### 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.

##### Eye:

May cause transient slight irritation.

##### Skin:

May be non-irritant.

##### 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 Conditions Generally known to be Aggravated by Exposure:

Not determined

### 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<sup>3</sup> (Total dust), 5 mg/m<sup>3</sup> (Respirable fraction)  
ACGIH TLV (TWA): 10 mg/m<sup>3</sup> (Inhalable fraction), 3 mg/m<sup>3</sup> (Respirable fraction)  
DFG (MAK): 4 mg/m<sup>3</sup> (Inhalable fraction), 1.5 mg/m<sup>3</sup> (Respirable fraction)  
(Also refer to SECTION 2)

#### 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

<b>Appearance:</b>	Cyan fine powder
<b>Odor:</b>	Slight plastic odor
<b>pH:</b>	Not applicable
<b>Boiling Point/Range(°C):</b>	Not applicable
<b>Melting Point/Range(°C):</b>	85-120 (Softening point)
<b>Decomposition Temperature(°C):</b>	> 200
<b>Flash Point(°C):</b>	Not applicable
<b>Flammable (Explosive) Limits:</b>	Not applicable
<b>Autoignition Temperature(°C):</b>	Not available
<b>Flammability:</b>	Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids))
<b>Explosive Properties:</b>	Can form explosive dust-air mixtures when finely dispersed in air.
<b>Oxidizing Properties:</b>	Not available
<b>Vapor Pressure:</b>	Not applicable
<b>Vapor Density:</b>	Not applicable
<b>Density / Specific Gravity:</b>	1.0-1.2
<b>Water Solubility:</b>	Negligible
<b>Fat Solubility:</b>	Partially soluble in toluene and xylene.
<b>Partition Coefficient (n-Octanol/Water):</b>	Not applicable
<b>Percent Volatile:</b>	Negligible
<b>Evaporation Rate:</b>	Not applicable
<b>Viscosity (mPa s):</b>	Not applicable

### SECTION 10 STABILITY AND REACTIVITY

**Stability:** ☒ Stable  
☐ Unstable

**Conditions to Avoid:** None

**Materials to Avoid:** Strong oxidizers

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>

**Hazardous Polymerization:** ☐ May Occur  
☒ Will Not Occur

**Conditions to Avoid:** None

### SECTION 11 TOXICOLOGICAL INFORMATION

#### Acute Toxicity:

##### Inhalation:

Not available

##### Ingestion:

Estimate: Rat, LD<sub>50</sub> > 2000 mg/kg (See SECTION 16)

##### Eye:

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

##### Skin:

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

#### Sensitization:

Estimate: Guinea pig, skin: Non-sensitizing (See SECTION 16)

#### Mutagenicity:

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

#### Reproductive Toxicity:

Not available

#### Carcinogenicity:

Not available

#### 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/m<sup>3</sup> 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<sup>3</sup>, and a mild to moderate degree of fibrosis was observed in 92% of the animals at 16 mg/m<sup>3</sup>. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lung for a prolonged interval.

### SECTION 12 ECOLOGICAL INFORMATION

<b>Mobility:</b>	Not available
<b>Persistence / Degradability:</b>	Not available
<b>Bioaccumulation:</b>	Not available
<b>Ecotoxicity:</b>	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)
<b>Other Adverse Effects:</b>	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

<b>UN #:</b>	None
<b>UN Shipping Name:</b>	None
<b>UN Classification:</b>	None
<b>UN Packing Group:</b>	None
<b>Marine Pollutant:</b>	<input type="checkbox"/> Yes    Chemical name (wt%): <input checked="" type="checkbox"/> No
<b>Special Precautions:</b>	None

### SECTION 15 REGULATORY INFORMATION

#### < EU Information >

##### Information on the Label:

**Symbol & Indication:** Not required

##### R-Phrase:

Not required

##### S-Phrase:

Not required

##### Dangerous Component(s):

Not required

##### Special Precautions under 1999/45/EC Annex V:

Not required

##### Specific Provisions 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 OSHA:

**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
- 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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