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## MATERIAL SAFETY DATA SHEET

MSDS #: TC1384-0103 Product Code: 1068B / F48-0213

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

**COMPANY/UNDERTAKING** 

**Product Name:** Canon C-EXV 16 Cyan Toner (for Copier/Printer)

Product Code: 1068B / F48-0213
Company Name: CanonEuropa 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	$(\mathbf{s})$	) >	

Chemical Name / Generic Name	CAS#/ EC#	Weight %	EU Symbol/ R-Phrase	USA OSHA PEL	ACGIH TLV	EU ILV	DFG MAK
Styrene acrylate copolymer	Confidential	75-85	None/ None	Not established	Not established	Not established	Not established
Wax	Confidential	5-10	None/ None	Not established	Not established	Not established	Not established
Pigment	Confidential	1-5	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

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Revised:



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# 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.

Revised:

# 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.

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#### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION Exposure Guidelines:** USA OSHA PEL (TWA): 15 mg/m³ (Total dust), 5 mg/m³ (Respirable fraction) 10 mg/m³ (Inhalable fraction), 3 mg/m³ (Respirable fraction) ACGIH TLV (TWA): 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 ☐ Required **Eye/Face Protection: ☒** Not Required **Skin Protection:** ☐ Required **☒** Not Required **SECTION 9** PHYSICAL AND CHEMICAL PROPERTIES Cyan fine powder Appearance: 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: Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids)) Can form explosive dust-air mixtures when finely dispersed in air. **Explosive Properties: Oxidizing Properties:** Not available Not applicable Vapor Pressure: Vapor Density: Not applicable **Density / Specific Gravity:** 1.0 - 1.2Water 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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SECTION 10 STABILITY AND	REACTIVITY				
Stability:					
Conditions to Avoid:	None				
Materials to Avoid:	Strong oxidizers  CO, CO2  May Occur  Will Not Occur				
<b>Hazardous Decomposition Products:</b>					
Hazardous Polymerization:					
Conditions to Avoid:	None				
SECTION 11 TOXICOLOGICA	AL INFORMATION				
Acute Toxicity: Inhalation: Not available					
<b>Ingestion:</b> Estimate: Rat, LD50 > 2000 mg/	kg (See Section 16)				
Eye: Estimate: Rabbit, transient slight	conjunctival irritation only. (See Section 16)				
Skin: Estimate: Rabbit, non-irritant (Sc	ee Section 16)				
<b>Sensitization:</b> Guinea pig, skin: Non-sensitizing	<b>5</b>				
Mutagenicity: Ames Test (S. typhimurium, E. c	oli): Negative				
Reproductive Toxicity: Not available					
Carcinogenicity: Not available					
respirable-sized particles compar	response upon chronic inhalation exposure in rats to a toner enriched in red to commercial toner. No pulmonary change was found at 1 mg/m³ which is exposure. A minimal to mild degree of fibrosis was noted in 22% of the				

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/m³ 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/m³, 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.

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Others:

None

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**SECTION 12 ECOLOGICAL INFORMATION** Not available Mobility: Persistence / Degradability: Not available **Bioaccumulation:** Not available Estimate: Fish (Rainbow trout), 96h LL50 > 1000 mg/l (WAF) **Ecotoxicity:** 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** TRANSPORT INFORMATION UN #: None **UN Shipping Name:** None **UN Classification:** None **UN Packing Group:** None Chemical name (wt%): **Marine Pollutant:** Yes **⋈** No Special Precautions: 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: Not regulated 76/769/EEC: (EC)2037/2000: Not regulated (EC)304/2003: Not regulated



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MSDS #:

< 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 Reference:

- 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]

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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 ILV: Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/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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