

MATERIAL SAFETY DATA SHEET

SECTION 1IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE
COMPANY/UNDERTAKINGProduct Name:Canon C-EXV 2 (Yellow) TonerProduct Code:4238A / F42-3931Company 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
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	5-10	None/ None	Not established	Not established	Not established	Not established

CAS#

Reference

< Carcinogen > Chemical Name

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:

Yellow 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/m³ (Total dust), 5 mg/m³ (Respirable fraction) ACGIH TLV (TWA): 10 mg/m³ (Inhalable fraction), 3 mg/m³ (Respirable fraction) DEC (MAK) 10 mg/m³ (Inhalable fraction), 3 mg/m³ (Respirable fraction)

DFG (MAK):	4 mg/m ³ (Inhalable	e fraction), 1.5	mg/m ³	(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

Appearance:	Yellow fine powder	
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))	
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 - 1.2	
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	



SECTION 10 STABILITY AND REACTIVITY				
SECTION 10 STABILITY AND) KEAU HVITY			
Stability:	X Stable □ Unstable			
Conditions to Avoid:	None			
Materials to Avoid:	Strong oxidizers			
Hazardous Decomposition Products:	<u>CO, CO2</u>			
Hazardous Polymerization:	☐ May Occur			
Conditions to Avoid:	None			
SECTION 11 TOXICOLOGICA	AL INFORMATION			
Acute Toxicity: Inhalation: Not available				
Ingestion: 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 (Se	ee Section 16)			
Sensitization: Estimate: Guinea pig, skin: Non-	sensitizing (See Section 16)			
Mutagenicity: Ames Test (S. typhimurium, E. c	oli): Negative			
Reproductive Toxicity: Not available				
Carcinogenicity: Not available				
respirable-sized particles compar most relevant to potential human animals at 4 mg/m ³ , and a mild to	response upon chronic inhalation exposure in rats to a toner enriched in red to commercial toner. No pulmonary change was found at 1 mg/m ³ which is exposure. A minimal to mild degree of fibrosis was noted in 22% of the o moderate degree of fibrosis was observed in 92% of the animals at 16 mg/m ³ . lung overloading", a generic response to excessive amounts of any dust retained			

in the lung for a prolonged interval.



SECTION 12 ECOLOGICAL INFORMATION

Mobility:	Not available
Persistence / Degradability:	Not available
Bioaccumulation:	Not available
Ecotoxicity:	Not available
Other Adverse Effects:	Not available

SECTION 13 DISPOSAL CONSIDERATION

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	Label:
Symbol & Indic	ation: Not required
R-Phrase: Not required	
S-Phrase: Not required	
Dangerous Com None	ponent(s):
Special Precauti Not required	ons under 1999/45/EC Annex V:
-	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:
Signal Word:	Not required
Hazard warning Not required	;:



Weight %
Weight %
<u>0</u>
Not a controlled product
Not classified as hazardous according to criteria of NOHSC.
MATION
ata on similar toner/developer/drum and/or the raw materials of this product. ious version: Entirely revised
ical Substances and Physical Agents and Biological Exposure Indices vices National Toxicology Program, Annual Report on Carcinogens gency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of 999/45/EC 2003 formation System d Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008] nit) under Occupational Safety and Health Administration (USA). o under American Conference of Governmental Industrial Hygienists. ational Exposure under EU Directive 91/322/EEC and 2000/39/EC. Konzentration) under Deutsche Forschungsgemeinschaft. n Cancer. th Act, Hazard Communication Standard (USA). USA). Information System. Safety Commission. set forth herein (the "Information") are presented in good faith and are believed to be correct as of the nakes no representations as to the completeness or accuracy of the Information and disclaims e Information is provided upon the condition that the persons receiving same will make their own urposes prior to use. Any use of the Information must be determined by the user to be in accordance we and regulations. In no event will the company/manufacturer be responsible for damages of any reliance upon the Information. INTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A DTHER NATURE ARE MADE WITH RESPECT TO THE INFORMATION OR THE PRODUCT RS.