

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING Product Name: Canon EP-86 Cartridge Yellow for Laser Beam Printer

Product Code:	6827A / R84-1011		
Manufacturer:	Canon Inc., 30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo, Japan, Ph # 03-3758-2111		
Supplier:	Canon USA, Inc., One Canon Park, Melville, NY 11747, USA		
Phone # :	1800-OK-CANON	24 Hr. Emergency CHEMTREC # 1-800-424-9300	

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	1-5	None/ None	Not established	Not established	Not established	Not established
Amorphous silica	7631-86-9/ 231-545-4	1-2	None/ None	20mppcf, 80(mg/m ³)/%SiO ₂	10mg/m³(TWA)	Not established	4mg/m ³ (Inhalable fraction)

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 Guide	lines:
USA OSHA I	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:	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			
Stability:	X Stable □ Unstable		
Conditions to Avoid:	None		
Materials to Avoid:	Strong oxidizers		
Hazardous Decomposition Products:	CO, CO2		
Hazardous Polymerization:	☐ May Occur		
Conditions to Avoid:	None		
SECTION 11 TOXICOLOGICA	AL INFORMATION		
Acute Toxicity: Inhalation: Not available			
Ingestion: Estimate: Rat, LD50 > 2000mg/l	kg		
Eye: Estimate: Rabbit, transient slight	conjunctival irritation only.		
Skin: Estimate: Rabbit, non-irritant			
Sensitization: Estimate: Guinea pig, skin: Non-	sensitizing		
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 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/m ³ . 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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Date of Issue:



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	TRANSPORT 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 None	ponent(s):
Special Precauti Not required	ons under 1999/45/EC Annex V:
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	E Label:
Signal Word:	Not required
Hazard warning Not required	3:



Safety Advice: Not required		
Hazardous Component(s): None		
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 Ne	OHSC.
SECTION 16 OTHER INFORM	MATION	
Revised information from the previo Partially revised MSDS# and Revised date	ous version:	
 U.S. Department of Health and Human Servi World Health Organization International Age Chemicals to Humans DFG, List of MAK and BAT Values EU Directive 76/769/EEC, 67/548/EEC, 19 EU Regulation (EC)2037/2000, (EC)304/20 Canada Workplace Hazardous Materials Info Australia National Occupational Health and Abbreviations: "EU" stands for European Union. "OSHA PEL" stands for PEL(Permissible Exp "ACGIH TLV" stands for TLV(Threshold Lin "EU ILV" stands for Indicative Limit Values "DFG MAK" stands for MAK(Maximale Arb "TWA" stands for International Agency for R "NTP" stands for National Toxicology Progra "OSHA HCS" stands for Ccupational Safety "FHSA" stands for Federal Hazardous Substa "WHMIS" stands for National Occupational F The information, data and recommendations s date hereof. The company/manufacturer m responsibility for any reliance thereon. The determination as to its suitability for their pu with applicable Federal, state and local laws nature whatsoever resulting from the use or re NO REPRESENTATIONS OR WARRAM 	FR Part 372 , 16CFR Part 1500 al Substances and Physical Agents and Biological Exposure Indices ices National Toxicology Program, Annual Report on Carcinogens ency for Research on Cancer, IARC Monographs on the Evaluation 99/45/EC 003 ormation System Safety Commission's Approved Criteria for Classifying Hazardous posure Limit) under Occupational Safety and Health Administration nit Value) under American Conference of Governmental Industrial I for Occupational Exposure under EU Directive 91/322/EEC and 20 eitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft. esearch on Cancer. m (USA). and Health Act, Hazard Communication Standard(USA). nces Act(USA). Materials Information System. Health and Safety Commission Act 1985. set forth herein (the "Information") are presented in good faith and ar akes no representations as to the completeness or accuracy of Information is provided upon the condition that the persons recei- rposes prior to use. Any use of the Information must be determined and regulations. In no event will the company/manufacturer be a eliance upon the Information. VTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTA FHER NATURE ARE MADE WITH RESPECT TO THE INFORM	on the Carcinogenic Risk of Substances[NOHSC:1008] (USA). Hygienists. 00/39/EC.