

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

Product Name:	Canon EP-86 Cartridge Cyan for Laser Beam Printer			
Product Code:	6829A / R84-1013			
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 #:	1-800-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
Copper compound	Confidential	1-5 (as Cu: 0.1-0.5)	None/ None	Not established	Not established	Not established	1.0mg/m ³ (Inhalable fraction) Copper and its compounds
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:

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.



	TROLS / PERSONAL PROTECTION		
Exposure Guidelines:			
USA OSHA PEL (TWA): 15 mg/m ³ (Total dust), 5 mg/m ³ (Respirable fraction)			
	³ (Inhalable fraction), 3 mg/m ³ (Respirable fraction)		
DFG (MAK): 4 mg/m (Also refer to SECTION 2)	³ (Inhalable fraction), 1.5 mg/m ³ (Respirable fraction)		
Engineering Controls:			
Use adequate ventilation.			
Personal Protection Equipment(s):			
Respiratory Protection: Requir	red		
🗙 Not Re	equired		
Eye/Face Protection: 🗌 Requir	red		
🗙 Not Re	equired		
Skin Protection:	ed		
Not Re	equired		
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):	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))		

·	(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	

Not applicable

Viscosity (mPa s):



SECTION 10 STABILITY AND REACTIVITY			
Stability:	Stable Unstable		
Conditions to Avoid:	None		
Materials to Avoid:	Strong oxidizers		
Hazardous Decomposition Products:	CO, CO2		
Hazardous Polymerization:	May Occur Will Not Occur		
Conditions to Avoid:	None		
SECTION 11 TOXICOLOGICA	AL INFORMATION		
Acute Toxicity: Inhalation: Not available			
Ingestion: Estimate:Rat, LD50 > 2000mg/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/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.



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 or 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
	REGULATORY INFORMATION
< EU Information >	
Information on the Symbol & Indic	e Label: ation: Not required
R-Phrase: Not required	
S-Phrase: Not required	
Dangerous Com None	aponent(s):
Special Precauti Not required	ons 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
(EEC)2455/92:	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:			
<u>Chemical Name</u>		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 INFOR None	MATION		
Literature Reference: - U.S. Department of Labor, 29CFR Part 19 - U.S. Environmental Protection Agency, 40 - U.S. Consumer Product Safety Commissio - ACGIH, Threshold Limit Values for Chem	CFR Part 372	ire 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
- DEC List of MAK and DATA
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 1999/45/EC
- EU Regulation (EC)2037/2000, (EEC)2455/92
- Canada Workplace Hazardous Materials Information System

- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]

Abbreviations:

"EU" stands for European Union.

"OSHA PEL" stands for PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration(USA).

- "ACGIH TLV" stands for TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
- "EU ILV" stands for Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC and 2000/39/EC.
- "DFG MAK" stands for MAK(Maximale Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft.

"TWA" stands for Time Weighted Average.

"IARC" stands for International Agency for Research on Cancer.

"NTP" stands for National Toxicology Program (USA).

- "OSHA HCS" stands for Occupational Safety and Health Act, Hazard Communication Standard(USA).
- "FHSA" stands for Federal Hazardous Substances Act(USA).
- "WHMIS" stands for Workplace Hazardous Materials Information System.

"NOHSC" stands for National Occupational Health and Safety Commission Act 1985.

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