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

Product Name: Canon EP-82 Toner Cartridge Cyan for Laser Beam Printer

Product Code: R94-3014

Manufacturer: Canon Inc., 30-2,Shimomaruko 3-Chome,Ohta-ku,Tokyo,Japan, Ph # 03-3758-2111

Supplier: Canon USA, Inc., One Canon Plaza, Lake Success, NY, 11042, USA

Phone #: 1-800-OK-CANON 24 Hr. Emergency CHEMTREC # 1-800-424-9300

MSDS #: TC0261-0105

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)

Chemical Name	CAS #	Weight %	EU Symbol	EU R-Phrase
None				

Chemical Name	USA OSHA PEL	ACGIH TLV
None		

Chemical Name	EU ILV	DFG MAK
None		

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS - Continued

Carcinogen

Chemical Name	CAS #	Reference
None		

Other Ingredient(s)

Chemical/Generic Name	Weight %
Styrene acrylate copolymer	60-80
Wax	5-15
Polyester resin	5-10
Pigment	5-10

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: Cyan fine powder, slight plastic odor.

Potential Health Effects and Symptoms:

Inhalation: Minimal respiratory tract irritation may occur as with exposure to large amounts of any non-toxic dust.

Ingestion: Ingestion is not applicable route of entry for intended use.

Eye: May cause eye irritation.

Skin: Unlikely to cause skin irritation.

Chronic Effects: Not known.

Medical Conditions Generally known to be Aggravated by Exposure:
Not identified

SECTION 4 FIRST AID MEASURES

First Aid Measures:

Inhalation:	Remove victim to fresh air. Get medical attention if symptoms persist.
Ingestion:	Dilute stomach contents with several glasses of water. Get medical attention if symptoms persist.
Eye:	Flush with running water for at least 15 minutes. If irritation persist, get medical attention.
Skin:	Wash with soap and water. If irritation persist, get medical attention.
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:	Toner material, like most organic material in powder form, is capable of creating a dust explosion.

Fire and Explosive Properties:

Flash Point(°C):	No data available
Flammable(Explosive) Limits:	No data available
Autoignition Temperature(°C):	No data available
Flammability:	Non-flammable solid (according to test methods of USA 16 CFR 1500.44 and Annex V of EU Directive 84/449/EEC)

SECTION 5 FIRE FIGHTING MEASURES - Continued

Fire and Explosive Properties - Continued:

Autoflammability:	Not applicable
Explosive Properties:	See "Unusual Fire and Explosion Hazards"
Oxidizing Properties:	No data available
Hazardous Combustion Products:	CO2, CO
Other Properties:	Not known

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid breathing dust. Use with adequate ventilation.
Environmental Precautions:	Do not wash away into sewer.
Method for Cleaning Up:	Sweep material onto paper and carefully transfer to a sealable waste container. If a vacuum is used, the motor must be rated as dust tight. A conductive hose bonded to the machine should be used to reduce static buildup.

SECTION 7 HANDLING AND STORAGE

Handling:	Avoid breathing dust. Use with adequate ventilation. Wash thoroughly after handling.
Storage:	Keep out of reach of children.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: USA OSHA(TWA/PEL):15mg/m3 (Total dust)
5mg/m3 (Respirable fraction)
ACGIH(TWA/TLV): 10mg/m3 (Inhalable particulate)
3mg/m3 (Respirable particulate)
DFG (MAK) : 4 mg/m3 (Inhalable fraction)
1.5 mg/m3 (Respirable fraction) (Also refer to SECTION 2)

Engineering Controls: Good general ventilation should be sufficient under intended use.

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:	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):	No data available
Flash Point(°C):	No data available
Flammable (Explosive) Limits:	No data available
Autoignition Temperature(°C):	No data available
Flammability:	Non-flammable solid (according to test methods of USA 16 CFR 1500.44 and Annex V of EU Directive 84/449/EEC)
Autoflammability:	Not applicable
Explosive Properties:	See "Unusual Fire and Explosion Hazards"
Oxidizing Properties:	No data 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:	Not applicable
Evaporation Rate:	Not applicable

SECTION 10 STABILITY AND REACTIVITY

Stability:	☒ Stable ☐ Unstable
Conditions to Avoid:	None
Materials to Avoid:	Strong oxidizers
Hazardous Decomposition Products:	Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.
Hazardous Polymerization:	☐ May Occur ☒ Will Not Occur
Conditions to Avoid:	None

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Inhalation:	(Data from similar toner): LC50: >5mg/L/4hr (rats)
Ingestion:	(Data from similar toner): Oral LD50: >2000mg/kg (rats)
Eye:	(Data from similar toner): Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC based on test data of rabbits.
Skin:	(Data from similar toner): Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC based on test data of rabbits.
Sensitization:	No sensitizer according to Annex I of EU Directive 67/548/EEC and strong sensitizer list of FHSA.
Mutagenicity:	(Data from similar toner): Negative (Ames Test: Salmonella typhimurium)
Reproductive Toxicity:	No reproductive toxic substances according to Annex I of EU Directive 67/548/EEC, California Proposition 65 and DFG.

SECTION 11 TOXICOLOGICAL INFORMATION - Continued

Carcinogenicity:	No human carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA(USA) regulation, California Proposition 65 and Annex I of EU Directive 67/548/EEC.
Others:	Sub-acute Toxicity - Rats; 90days inhalation Test Test sample: magnetic toner (mean volume diameter is 6.0 μm) NOEL (No observed effect level): 16mg/m3

SECTION 12 ECOLOGICAL INFORMATION

No information indicating any adverse ecological effects.

SECTION 13 DISPOSAL CONSIDERATION

Method of Disposal:	This product is constructed from plastics and metals. The waste toner could be considered as plastic powder waste. 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
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):	None

Specific Provisions in Relation to Protection of Man or the Environment:

76/769/EEC:	Not regulated
(EC)3093/94:	Not regulated
(EEC)2455/92:	Not regulated
Others:	None

USA Information:

Information on the Label:

Signal Word:	Not required
Hazard warning:	Not required
Safety Advice:	Not required
Hazardous Component(s):	None

SARA Title III §313:

Chemical Name	Weight %
None	

California Proposition 65:

Chemical Name	Weight %
None	

SECTION 16 OTHER INFORMATION

Other Information:

None

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, 88/379/EEC and their amendments.
- EU Regulation (EC)3093/94, (EEC)2455/92 and their amendments.

Abbreviations:

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

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