

---

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

---

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

Product Code: R94-3012

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 #: TC0263-0105

---

**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:** Yellow 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: CO<sub>2</sub>, 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: Yellow fine powder, slight plastic odor.  
 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  $\mu\text{m}$ )  
NOEL (No observed effect level): 16mg/m<sup>3</sup>

---

---

**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 & Not required  
Indication: \_\_\_\_\_R-Phrase: Not required  
\_\_\_\_\_S-Phrase: Not required  
\_\_\_\_\_Dangerous None  
Component(s): \_\_\_\_\_  
\_\_\_\_\_**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 None  
Component(s): \_\_\_\_\_  
\_\_\_\_\_**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).

The information, data and recommendations set forth herein (the "Information") are presented in good faith and are believed to be correct as of the date hereof. The company/matrix manufacturer makes no representations as to the completeness or accuracy of the Information and disclaims responsibility for any reliance thereon. The Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal, state and local laws and regulations. In no event will the company/matrix manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO THE INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS.

Date of Issue: February 8, 1999 \_\_\_\_\_

Revised Date: \_\_\_\_\_