



## MATERIAL SAFETY DATA SHEET

---

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Identification**

Product Name: Ricoh LP Toner Cartridge Type 145 Yellow  
Product Number: 888277  
Chemical Name: mixture  
CAS Number: 0-00-0

**Company Identification**

Ricoh Corporation  
5 Dedrick Place  
West Caldwell, NJ 07006 USA  
1-973-882-2000 or 1-973-882-5218 (For product information)  
1-800-336-6737 (For emergencies)

**GENERAL USE:**

Aficio CL4000DN, SP C410DN, SP C411DN.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**COMPONENT LISTING:**

Chemical Name	Amount	CAS Number
POLYESTER RESIN	60.0 - 90.0 %	Confidential
WAX	1.0 - 10.0 %	8015-86-9
ORGANIC PIGMENT	1.0 - 10.0 %	77804-81-0

**EXPOSURE GUIDELINES:**

No Information Available.

### 3. HAZARDS IDENTIFICATION

**PRIMARY ENTRY ROUTES:**

Inhalation, ingestion.

**CARCINOGENICITY:**

This product does not contain the carcinogenic substances which are listed in NTP, IARC and are regulated by OSHA.

**MEDICAL CONDITION AGGRAVATED BY LONG-TERM EXPOSURE:**

Not applicable.

**CHRONIC EFFECTS:**

No data is available on this product.

## 4. FIRST AID MEASURES

### **EYE CONTACT FIRST AID:**

Immediately wash eyes with plenty of water. If unsuccessful, get medical attention.

### **SKIN CONTACT FIRST AID:**

Wash thoroughly with soap and water.

### **INHALATION FIRST AID:**

Gargle with water, move to place in fresh air. If unsuccessful, get medical attention.

### **INGESTION FIRST AID:**

Dilute stomach contents with several glasses of water. If unsuccessful, get medical attention.

## 5. FIRE FIGHTING MEASURES

### **FLAMMABLE PROPERTIES**

COC Flash Point: N/A

Autoignition Temperature: N/A

### **FLAMMABLE LIMITS IN AIR**

LEL: N/A

UEL: N/A

### **BURNING RATE:**

Not available.

### **EXTINGUISHING MEDIA:**

CO2, dry chemicals, foam or water.

### **FIRE FIGHTING INSTRUCTIONS:**

Generally by sprinkling or extinguisher.

## 6. ACCIDENTAL RELEASE MEASURES

### **SPILL / LEAK PROCEDURES:**

If spilled, sweep up or pick up by vacuum cleaner (rated for toner extraction).

### **MISCELLANEOUS:**

Minimize inhalation of dust. Keep product out of sewers and watercourses.

## 7. HANDLING AND STORAGE

### **HANDLING PRECAUTIONS:**

Do not handle in areas where wind blows. Flying powder may enter eyes. Minimize breathing dust.

### **STORAGE REQUIREMENTS:**

Avoid direct sunlight. Do not keep this over 35 degrees centigrade. Keep out of reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **VENTILATION:**

None needed under normal use condition.

**RESPIRATORY PROTECTION:**

Use an approved dust respirator for concentrations in excess of the applicable exposure limit.

**PROTECTIVE CLOTHING / EQUIPMENT:**

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Powder
COLOR:	Yellow
ODOR:	slight plastic odor
BOILING POINT:	Not applicable C
VAPOR PRESSURE:	Not applicable psia
VAPOR DENSITY:	Not applicable (Air = 1)
SOLUBILITY IN WATER:	Insoluble
MELTING/FREEZING POINT:	Not applicable C
PH:	Not applicable
% VOLATILES:	- %
VISCOSITY:	Not applicable
EVAPORATION RATE:	Not applicable
DENSITY (G/CM <sup>3</sup> ):	approx. 1.2

## 10. STABILITY AND REACTIVITY

**POLYMERIZATION:**

None.

**CONDITIONS TO AVOID:**

Not applicable in normal use.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**ACUTE ORAL EFFECTS:**

Rat (LD50): >5000mg/kg.

**CARCINOGENICITY:**

No data is available on this product.

**MUTAGENICITY:**

Negative (Ames test).

**TERATOGENICITY:**

Not available.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DEGRADATION:**

Not known.

**MISCELLANEOUS:**

Not known in bioaccumulation.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL:**

Used toner should be disposed of in an environmentally appropriate manner and in accordance with governmental regulations. Do not incinerate.

**14. TRANSPORT INFORMATION**

PRODUCT LABEL: Ricoh LP Toner Cartridge Type 145 Yellow

**MISCELLANEOUS:**

Avoid direct sunlight. Do not keep this over 35 degrees centigrade.

**15. REGULATORY INFORMATION**

**MISCELLANEOUS INFORMATION:**

Canadian WHMIS: This product is not regulated as controlled products under the Workplace Hazardous Materials Information System (WHMIS).

TSCA: All components of this product have been manufactured in compliance with TSCA.

**16. OTHER INFORMATION**

**HMIS Rating:**

Health - 1  
Flammability - 1  
Reactivity - 0

APPROVED BY: David Huelbig  
TITLE: Safety Engineer  
APPROVAL DATE: December 3, 2004  
SUPERCEDES DATE: New  
RTN NUMBER: 00003137 (Official Copy)

\*\*\*\*\*

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Ricoh Corporation. The data on this sheet are related only to the specific material designated herein. Ricoh Corporation assumes no legal responsibility for use or reliance upon these data.

\*\*\*\*\*

**END OF MSDS**

\*\*\*\*\*