



## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

Product Name: Ricoh Toner Cartridge Type 185 (Toner)  
Product Number: 410302  
Chemical Name: mixture  
CAS Number: 0-00-0

#### Company Identification

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

#### **GENERAL USE:**

Aficio 150, 180.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### **COMPONENT LISTING:**

Chemical Name	Amount	CAS Number
POLYESTER RESIN	40.0 - 70.0 %	Confidential
STYRENE-ACRYLIC RESIN	< 20.0 %	Styrene-Acrylic Resin
MAGNETITE	30.0 - 50.0 %	1309-38-2
WAX	< 5.0 %	8015-86-9
SILICON COMPOUND	< 5.0 %	7631-86-9

#### **MISCELLANEOUS:**

According to the United States Toxic Substances Control Act (TSCA) all chemical ingredients/substances contained within this product are listed on the TSCA Master Inventory.

#### **EXPOSURE GUIDELINES:**

##### **Magnetite**

OSHA PEL: 15 mg/m<sup>3</sup>  
ACGIH TWA: 10 mg/m<sup>3</sup>

### 3. HAZARDS IDENTIFICATION

#### **PRIMARY ENTRY ROUTES:**

Inhalation, ingestion.

#### **ACUTE SKIN EFFECTS:**

Non-irritant.

**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:**

Prolonged inhalation of excessive dust may cause lung damage. It is attributed to 'lung overloading', a generic response to excessive amounts of any dust retained in the lung for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust.

## 4. FIRST AID MEASURES

**EYE CONTACT FIRST AID:**

Immediately wash eyes with large amounts 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:**

Induce vomiting. Seek medical attention immediately.

## 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:**

No special fire protecting method is required.

## 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:**

None required under normal conditions of use.

### **PROTECTIVE CLOTHING / EQUIPMENT:**

None required under normal conditions of use.

Eye protection: None required under normal conditions of use.

Protective gloves: None required under normal conditions of use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Powder
COLOR:	Black
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 available C
PH:	Not applicable
% VOLATILES:	- %
VISCOSITY:	Not applicable
EVAPORATION RATE:	Not applicable
DENSITY (G/CM3):	approx. 1.8

## 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: >5000 mg/kg.

**CARCINOGENICITY:**

No data is available on this product.

**MUTAGENICITY:**

Negative (Ames test).

**TERATOGENICITY:**

Not available.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DEGRADATION:**

Not known.

## 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 Toner Cartridge Type 185 (Toner)

**MISCELLANEOUS:**

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

## 15. REGULATORY INFORMATION

**Canadian Disclosure List**

Silicon Compound (7631-86-9)

## 16. OTHER INFORMATION

**HMIS Rating:**

Health - 1  
Flammability - 1  
Reactivity - 0

APPROVED BY: David Huelbig  
TITLE: Safety Engineer  
APPROVAL DATE: August 31, 2004  
SUPERCEDES DATE: September 10, 2001  
RTN NUMBER: 00001727 (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**  
\*\*\*\*\*