



## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Identification**

Product Name: Ricoh Toner Cartridge Type 185 (OPC)  
Product Number: 410302  
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 150, 180.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**COMPONENT LISTING:**

Chemical Name	Amount	CAS Number
AL SUBSTRATE	> 97.0 %	7429-90-5
CHARGE TRANSPORT MATERIAL	< 1.0 %	Confidential
BINDER RESIN	< 1.0 %	Confidential
METAL OXIDE	< 1.0 %	Confidential
ORGANIC PIGMENT	< 1.0 %	Confidential

**MISCELLANEOUS:**

The drum is an 'article' by OSHA definition, not a 'chemical'. It does not release or otherwise result in exposure to any hazardous chemicals under normal conditions of use.

**EXPOSURE GUIDELINES:**

No Information Available.

### 3. HAZARDS IDENTIFICATION

**CARCINOGENICITY:**

This product does not contain the carcinogenic substances which are listed in IARC.

**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:**

Not applicable.

**SKIN CONTACT FIRST AID:**

Wash thoroughly with soap and water.

**INHALATION FIRST AID:**

Not applicable.

**INGESTION FIRST AID:**

Not applicable.

## 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:**

Water, foam or dry chemicals.

**FIRE FIGHTING INSTRUCTIONS:**

Generally by sprinkling or extinguisher.

## 6. ACCIDENTAL RELEASE MEASURES

No information available.

## 7. HANDLING AND STORAGE

**HANDLING PRECAUTIONS:**

Do not touch coated area of drum (for quality).

**STORAGE REQUIREMENTS:**

Store in a cool and dry place. Do not expose to direct sunlight (for quality). Keep out of reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**VENTILATION:**

None needed under normal use condition.

**RESPIRATORY PROTECTION:**

None needed.

**PROTECTIVE CLOTHING / EQUIPMENT:**

None needed.

Eye protection: None needed.

Protective gloves: None needed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Drum
COLOR:	Dark green
ODOR:	No odor
BOILING POINT:	Not applicable C
VAPOR PRESSURE:	Not applicable psia
VAPOR DENSITY:	Not applicable (Air = 1)
SOLUBILITY IN WATER:	Insoluble
BULK DENSITY:	Not applicable
MELTING/FREEZING POINT:	Not available C
PH:	Not applicable
% VOLATILES:	- %
VISCOSITY:	Not applicable
EVAPORATION RATE:	Not applicable
DENSITY (G/CM3):	Not available

## 10. STABILITY AND REACTIVITY

**POLYMERIZATION:**

None.

**CONDITIONS TO AVOID:**

None under normal use condition.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**CARCINOGENICITY:**

This product does not contain the carcinogenic substances which are listed in IARC.

**MUTAGENICITY:**

Negative.

**TERATOGENICITY:**

Not available.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DEGRADATION:**

Not known.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL:**

Used drum should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

**14. TRANSPORT INFORMATION**

PRODUCT LABEL: Ricoh Toner Cartridge Type 185 (OPC)

**MISCELLANEOUS:**

Store in a cool and dry place (for quality).

**15. REGULATORY INFORMATION**

**Canadian Disclosure List**

Al Substrate (7429-90-5)

**SARA Title III - Section 313**

Al Substrate (7429-90-5)

**Title V**

Al Substrate (7429-90-5)

**16. OTHER INFORMATION**

**HMIS Rating:**

Health - 0  
Flammability - 1  
Reactivity - 0

APPROVED BY: David Huelbig  
TITLE: Safety Engineer  
APPROVAL DATE: August 31, 2004  
SUPERCEDES DATE: October 9, 2001  
RTN NUMBER: 00001856 (Official Copy)

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**END OF MSDS**

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