



## MATERIAL SAFETY DATA SHEET

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### **Product Identification**

Product Name: Ricoh Toner Type 3105D Black  
Product Number: 885247  
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 1035, Aficio 1035P, Aficio 1045, Aficio 1045P, Aficio AP4510.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### **COMPONENT LISTING:**

Chemical Name	Amount	CAS Number
POLYESTER RESIN	> 80.0 %	0-00-0
CARBON BLACK	< 15.0 %	1333-86-4
CARNAUBA WAX	< 10.0 %	8015-86-9

#### **EXPOSURE GUIDELINES:**

##### **Carbon Black**

OSHA PEL: 3.5 mg/m<sup>3</sup>  
ACGIH TWA: 3.5 mg/m<sup>3</sup>

### 3. HAZARDS IDENTIFICATION

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

Inhalation, ingestion.

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

Non-irritant.

#### **CARCINOGENICITY:**

Carbon Black was reclassified as a Group 2B by IARC in 1996 based on the result of only the inhalation study in rats. However there was not observed the incidence of tumors on the test results on dermal or oral studies. Also 2-years inhalation study using a typical toner containing carbon black showed no association between toner exposure and animal tumors.

**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:**

Try to remove with eye drops or flush with 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:**

Foam, water spray (mist), dry chemical, or carbon dioxide may be suitable.

**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). Remove residue with soap and water.

**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 35C. Keep out of reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**VENTILATION:**

None required under normal conditions of use.

**RESPIRATORY PROTECTION:**

None required under normal conditions of use.

**PROTECTIVE CLOTHING / EQUIPMENT:**

None required under normal conditions of use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Powder
COLOR:	Black
ODOR:	slight plastic odor
BOILING POINT:	N/a C
VAPOR PRESSURE:	N/a psia
VAPOR DENSITY:	N/a (Air = 1)
SOLUBILITY IN WATER:	Insoluble
MELTING/FREEZING POINT:	110 approximately C
PH:	N/a
% VOLATILES:	- %
DENSITY (G/CM3):	1.2 approximately

## 10. STABILITY AND REACTIVITY

**STABILITY:**

Stable.

**POLYMERIZATION:**

None.

**CONDITIONS TO AVOID:**

Not applicable in normal use.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**SKIN EFFECTS:**

Non-irritant.

**ACUTE ORAL EFFECTS:**

Rat: >5000 mg/kg.

**CARCINOGENICITY:**

In 1996 IARC reevaluated Carbon Black as a Group 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover 2-years cancer bioassay using a typical toner preparation containing carbon black did not demonstrate an association between toner exposure and tumor development in rats.

**MUTAGENICITY:**

Negative.

**TERATOGENICITY:**

No data.

## 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 Toner Type 3105D Black

**MISCELLANEOUS:**

Avoid direct sunlight. Do not keep this over 35C.

## 15. REGULATORY INFORMATION

No information available.

## 16. OTHER INFORMATION

**HMIS Rating:**

Health - 1  
Flammability - 1  
Reactivity - 0

APPROVED BY: David Huelbig

TITLE:	Safety Engineer
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**END OF MSDS**

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