



## MATERIAL SAFETY DATA SHEET

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

Product Name: Toner Type 204 DTM; Black  
Product Number: 400316  
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:**

AP204.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### **COMPONENT LISTING:**

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
POLYESTER RESIN	> 79.0 %	41259-36-3
POLYPROPYLENE WAX	0.5 - 5.0 %	9003-07-0
ORGANIC BORON COMPOUND	0.1 - 3.0 %	114803-11-1
CARBON BLACK	3.0 - 10.0 %	1333-86-4
SILICA	< 3.0 %	68909-20-6

#### **EXPOSURE GUIDELINES:**

##### **Carbon Black**

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

### 3. HAZARDS IDENTIFICATION

#### **ACUTE EYE EFFECTS:**

May cause eye irritation.

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

Unlikely to cause skin irritation.

#### **ACUTE INHALATION EFFECTS:**

Minimal respiratory tract irritation may occur as with exposure to large amounts of any non-toxic dust.

**ACUTE INGESTION EFFECTS:**

Ingestion is not applicable route or entry for intended use.

**CARCINOGENICITY:**

No carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA (USA) regulation.

IARC overall evaluation is that 'carbon black is possibly carcinogenic to humans (Group 2B)'.  
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**4. FIRST AID MEASURES**

**EYE CONTACT FIRST AID:**

In case of contact, immediately flush with plenty of low pressure water for at least 15 minutes. Call a physician.

**SKIN CONTACT FIRST AID:**

Wash with soap and running water.

**INHALATION FIRST AID:**

Remove to fresh air. Treat any irritation symptomatically. Call a physician.

**INGESTION FIRST AID:**

If swallowed, do not induce vomiting. Call a physician.

**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

**EXTINGUISHING MEDIA:**

CO2, foam, water or dry chemicals.

**FIRE FIGHTING INSTRUCTIONS:**

None. Keep sources of ignition at a distance.

**MISCELLANEOUS:**

Toner is combustible. Explosive limits of toner particles suspended in air approximately equal to that of coal dust.

**6. ACCIDENTAL RELEASE MEASURES**

**SPILL / LEAK PROCEDURES:**

Loose toner can be removed using an approved vacuum cleaner. Residue can be removed with soap and water.

## 7. HANDLING AND STORAGE

### HANDLING PRECAUTIONS:

Open and handle container with care.

### STORAGE REQUIREMENTS:

Store container in a dry/cool place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### VENTILATION:

Good general ventilation should be sufficient under intended use.

### RESPIRATORY PROTECTION:

None (under normal use).

### PROTECTIVE CLOTHING / EQUIPMENT:

Not necessary.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM .....: Fine 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 ...: Negligible  
SPECIFIC GRAVITY .....: 1.1 (Water = 1)  
PH .....: Not applicable  
% VOLATILES .....: Not applicable %

## 10. STABILITY AND REACTIVITY

### STABILITY:

Stable.

### POLYMERIZATION:

Will not occur.

### CHEMICAL INCOMPATIBILITIES:

Strong oxidizers.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

### EYE EFFECTS:

No data available.

**SKIN EFFECTS:**

No data available.

**ACUTE ORAL EFFECTS:**

No data available.

**CHRONIC EFFECTS:**

No data available.

**CARCINOGENICITY:**

No carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA (USA) regulation.

IARC's overall evaluation is that 'carbon black is possibly carcinogenic to humans (Group 2B)'.

**MUTAGENICITY:**

Negative (Ames test: Salmonella typhimurium and Escherichia coli).

**12. ECOLOGICAL INFORMATION**

**MISCELLANEOUS:**

No data is available as to the effects on the environment.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL:**

Dispose in an environmentally appropriate manner.

**14. TRANSPORT INFORMATION**

PRODUCT LABEL ...: Toner Type 204 DTM; Black

**15. REGULATORY INFORMATION**

No information available.

**16. OTHER INFORMATION**

PREPARED BY .....: David Huelbig  
APPROVED BY .....: David Huelbig  
TITLE .....: Safety Engineer  
APPROVAL DATE .....: April 1, 2003  
SUPERCEDES DATE ...: New  
RTN NUMBER .....: 00002654 (Official Copy)

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