



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Toner Type 204 DTM; Cyan
Product Number: 400317
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>
RESIN	< 80.0 %	80100252-5001 (NJ TRS
ORGANIC PIGMENT	> 10.0 %	147-14-8
POLYPROPYLENE WAX	> 5.0 %	9010-79-1
ORGANIC SALT	> 5.0 %	114803-11-1
SILICA	> 2.0 %	7631-86-9
SILICA	> 1.0 %	60842-32-2

MISCELLANEOUS:

All ingredients are included on the TSCA inventory list.

EXPOSURE GUIDELINES:

Silica

OSHA PEL: 5 mg/m³
ACGIH TWA: 10 mg/m³

Silica

OSHA PEL: 5 mg/m³
ACGIH TWA: 10 mg/m³

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****
* * * * *
* Fine odorless powder (Cyan colored), water * * * * *

* insoluble. *
* *

ACUTE EYE EFFECTS:

This product presents no serious risk of chemical damage to the eyes.

ACUTE SKIN EFFECTS:

This product presents no serious risk of chemical damage to the skin.

ACUTE INHALATION EFFECTS:

Respiratory tract may be effected by exposure to large amounts of dust from this product.

ACUTE INGESTION EFFECTS:

This product may be harmful if swallowed.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Flush eyes with plenty of water for a minimum of 15 minutes, and seek medical attention.

SKIN CONTACT FIRST AID:

Wash material off of skin with plenty of soap and water.

INHALATION FIRST AID:

Remove person to fresh air and seek medical attention. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

INGESTION FIRST AID:

If the material is swallowed, get immediate medical attention or advice.

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.

FLAMMABILITY CLASSIFICATION:

Not available.

NFPA Rating - Health: 1
Flammability: 1
Reactivity: 0

EXTINGUISHING MEDIA:

Dry chemical or CO2 for small fires. Alcohol-type or all-purpose type foams for large fires.

HAZARDOUS COMBUSTION PRODUCTS:

Combustion or decomposition will generate phenol derivatives, carbon monoxide, CO2 over 300 degrees C.

FIRE FIGHTING INSTRUCTIONS:

Not provided.

FIRE FIGHTING EQUIPMENT:

Not provided.

MISCELLANEOUS:

Lower flammable limits (LFL): 34.5g/m3.

Minimal fire hazard. Material is self-extinguishing.

6. ACCIDENTAL RELEASE MEASURES

SPILL / LEAK PROCEDURES:

If the product is spilled, sweep up material and recover it, or mix the spilled material with moist absorbent and shovel into suitable waste container. This material is non-hazardous under RCRA.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Use protective goggles and gloves.

STORAGE REQUIREMENTS:

Keep containers tightly closed and store in a cool, well ventilated area. Storage below 35C is recommended to prevent product from caking.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use local exhaust ventilation (Use local ventilation in dusty areas).

RESPIRATORY PROTECTION:

Use a NIOSH/MSHA approved dust/mist respirator.

PROTECTIVE CLOTHING / EQUIPMENT:

Use protective goggles. Use suitable protective gloves.

MISCELLANEOUS:

Product is generally non-hazardous when not a dust or powder. Product is generally in fine granule form.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Powder
COLOR: Cyan
ODOR: odorless
BOILING POINT: Not applicable C

VAPOR PRESSURE: Not applicable psia
VAPOR DENSITY: Not applicable (Air = 1)
SOLUBILITY IN WATER: Insoluble
SPECIFIC GRAVITY: 1.16 @ 20C (68F) (Water = 1)
MELTING/FREEZING POINT ...: Not applicable C
PH: Not available
% VOLATILES: Not available %

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

POLYMERIZATION:

Will not occur.

CHEMICAL INCOMPATIBILITIES:

Strong oxidizing agents.

CONDITIONS TO AVOID:

Not available.

HAZARDOUS DECOMPOSITION PRODUCTS:

Combustion or decomposition will generate phenol derivative, carbon dioxide and carbon monoxide over 300C.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL EFFECTS:

LD50 > 2000mg/g.

MUTAGENICITY:

Negative.

TERATOGENICITY:

Not available.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

Not available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL:

Dispose of material waste in accordance with governmental regulations. Prevent release of material into natural environment.

14. TRANSPORT INFORMATION

