

Material Safety Data Sheet

3020/ 3510 Black Toner Cartridges

Date prepared: 5/1/07

Section 1: Chemical Product and Company Information

Manufacturer:

Media Sciences, Incorporated
 8 Allerman Road
 Oakland, New Jersey 07436
 Phone: 888.376.8348 • 201.677.9311
 Fax: 201.677.1440

Product Name:

Black Toner Cartridge

Part Numbers:

MS3020K
 MS3510K

Section 2: Product Use

For use in printer models: Ricoh® CL2000/ CL3000/ CL3500

Section 3: Chemical Composition

Components				
Component/Substance	CAS No.	% by weight	OSHA PELS	ACGIH TLV
Polyester	27136-00-1	90 – 95	-	-
Carbon Black	1333-86-48	2 – 4	-	-
Polypropylene Wax	9003-07-0	< 3	-	-
Phenol derivative	Trade Secret	< 3	-	-
Modified Silica (SiO ₂)	Trade Secret	< 3	-	-

Section 4: Hazards Identification and First Aid Measures

Potential Health Effects: Toner and developer powders are encased in a cartridge. Minimal exposure through inhalation or skin contact is expected when used as intended. Potential health effects are expected to be negligible and there are no known medical conditions that are aggravated by exposure to this product. There are no known chronic effects. Sign of exposure is minor irritation to respiratory tract.

- a. Dust Inhalation: Remove person from exposure and provide fresh air. Seek medical attention if symptoms occur.
- b. Eye Contact: If particles get into eye, flush thoroughly with water. Seek medical attention if symptoms occur.
- c. Skin Contact: Wash thoroughly with soap and water. Seek medical attention if symptoms occur.
- d. Ingestion: Rinse mouth and drink large volumes of water. Seek medical attention if symptoms occur.

Section 5: Combustion

- a. Flash point: Not applicable
- b. Fire and Explosion Hazards: Toner is a combustible powder. Like most organic powders, it can form explosive mixtures when dispersed in air.
- c. Extinguishing media: Water, dry chemicals, carbon dioxide, foam.
- d. Fire Fighting Instructions: Avoid inhalation of smoke. As for any fire, wear protective clothing and self-contained breathing apparatus.

Section 6: Accidental Release Measures

- a. If toner spillage should result from container breakage, remove all sources of ignition from the immediate area. For a small spill, sweep up or soak up with damp cloth. Do not use vacuum unless the motor is rated as dust tight. For large spills, wear proper protective equipment and place waste material in closed container.
- b. Do not use metal containers for collection and ensure containers are closed for storage and disposal.
- c. Dispose in accordance with federal, state and local regulations.

Section 7: Handling and Storage

- a. Avoid storage under high temperature.
- b. Do not incinerate toner or a toner cartridge. Do not disassemble a cartridge.
- c. Keep in a cool, dry and well-ventilated area. Keep out of reach of children.

Section 8: Exposure Limitations

- a. Threshold Limit Value: 10mg/m³ (total dust); 3mg/m³ (respirable dust)
- b. Permissible Exposure Limit: 15mg/m³ (total dust); 5mg/m³ (respirable dust)
- c. Short Term Exposure Limit: None established.
- d. Ceiling Limit: None established.

Section 9: Chemical and Physical Properties

- a. Appearance/Odor: Black powders/faint odor
- b. Boiling Point: Not applicable.
- c. Solubility in Water: Insoluble to negligible.
- d. Evaporation Rate: Not applicable.
- e. Vapor Density: Not applicable.
- f. Volatility: Not applicable.
- g. Softening Range: Not available.
- h. Melting Point: Not available.
- i. Specific Gravity: Not available.
- j. Vapor Pressure: Not applicable.
- k. pH: Not applicable.

Section 10: Stability and Reactivity

- a. Flash Point: Not applicable.
- b. Auto-Ignition Temperature: Not applicable.
- c. Explosion Limit: Not applicable.
- d. Flammability: Not flammable under conditions of use.
- e. Spontaneous Combustibility/Reactivity with water: None
- f. Self-reactivity/Explosive: None.
- g. Dust Explosive: Like most organic materials in powder form, it can form explosive mixtures when dispersed in air.
- h. Stability and Reactivity: Stable.
- i. Incompatibility with Other Materials: Strong oxidizers.
- j. Hazardous Polymerization: Will not occur.
- k. Hazardous Decomposition Products: During a fire, toxic gases may be generated by thermal decomposition or combustion.

Section 11: Health Information

- a. Skin Corrosive: None
- b. Skin Sensitizer: Not a sensitizer.
- c. Skin Irritant: Not an irritant.
- d. Eye Irritant: Not an irritant.
- e. Acute Toxicity:
 - Oral LD50: >5g/kg, practically non-toxic
 - Dermal LD50: >5g/kg, practically non-toxic
 - Inhalation LD50: >5g/kg, practically non-toxic
- f. Mutagenicity: No mutagenicity detected in Ames assay.
- g. Carcinogens: None present.

Section 12: Environmental Information

Information on Biodegradability, Bioaccumulation and Acute Toxicity are not available.

Section 13: Disposal Considerations

This product must be disposed of according to local authority regulations. It is not declared hazardous according to U.S. Federal Regulations. It should not be disposed of as general public refuse.

Section 14: Transportation Information

This product is not declared dangerous nor is it classified under D.O.T. Regulations.

Section 15: Regulatory Information

TSCA: All components of these toners have been manufactured in compliance with TSCA.

Canadian WHMIS: These toners are not regulated as controlled products under the Workplace Hazardous Materials Information System (WHMIS).

EU: Organic pigment* is treated as a new chemical.

Certain U.S. state regulations and stipulations may apply. This data is not listed here. For further information, please contact your supplier.

Section 16: Other Information

NFPA 704: Health-1, Fire-1, Reactivity-0

Section 17: Disclaimer

This is the current status as known by Media Sciences, Inc. at the time of manufacture/printing.

This is believed to be accurate but no warranty with respect to accuracy or completion is implied or intended.

Interpretation of the above supplied information is left solely to the final user.

The information contained herein is based on data believed to be reliable, but is furnished without warranty or guarantee of any kind and Media Sciences, Inc. disclaims any liability incurred from the use or reliance upon the same.

Prepared by Media Sciences, Inc.

Media Sciences is a registered trademark of Media Sciences, Inc.
Ricoh and Aficio are registered trademark of Ricoh Corporation.