

# Material Safety Data Sheet

3200 Black Toner Cartridges

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## 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:**  
MS3200K-HC  
MS3200K-SC

## Section 2: Product Use

For use in printer models: OKI® C3100 / C3200 (*Standard Capacity Cartridge not for use in OKI® C3100*)

## Section 3: Chemical Composition

Components				
Component/Substance	CAS No.	% by weight	OSHA PELS	ACGIH TLV
Polyester resin	144437-81-0	80-90	-	-
Wax	8015-86-9	1-3	-	-
Organic pigment	1333-86-4	3-6	-	-
Organic metal complex	42405-40-3	1-2.0	-	-
Amorphous Silica	7631-86-9	1-2	20mppcf,80(mg/m <sup>3</sup> )%SiO <sub>2</sub>	4mg/m <sup>3</sup>
Alumina	-	-	-	-
Titanium Compound	13463-67-7	0.1-0.5	15mg/m <sup>3</sup> (Total dust)	10mg/m <sup>3</sup>

## 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/m<sup>3</sup> (total dust); 3mg/m<sup>3</sup> (respirable dust)
- b. Permissible Exposure Limit: 15mg/m<sup>3</sup> (total dust); 5mg/m<sup>3</sup> (respirable dust)
- c. Short Term Exposure Limit: None established.
- d. Ceiling Limit: None established.

## Section 9: Chemical and Physical Properties

- a. Appearance/Odor: Black, cyan, magenta or yellow 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).  
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**

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