

# Specifications

## Material Safety Data Sheets Color Toner Cartridges

Manufacturer: Xerox Corporation, Office Printing Business  
P. O. Box 1000, Wilsonville, Oregon, 97070-1000  
Preparation Date: July 26, 2000

### Section 1 - Product Identification

Product Names	Part Numbers
Black Toner Cartridge	006R90293, 006R90303
Cyan Toner Cartridge	006R90294, 006R90304
Magenta Toner Cartridge	006R90295, 006R90305
Yellow Toner Cartridge	006R90296, 006R90306
Supplies Start up kit	1235SS

**Product Use: XEROX Phaser® 1235 Color Printers**

### SECTION 2 - INFORMATION ON INGREDIENTS

Ingredients (percent by weight)	CAS number
Polymer (85-95 percent)	Trade Secret
Wax (2-10 percent)	Trade Secret
Black toner: carbon black (2-10 percent)	1333-86-4
Cyan toner: cyan pigment (2-10 percent)	Trade secret
Magenta toner: magenta pigment (2-10 percent)	Trade secret
Yellow toner: yellow pigment (2-10 percent)	Trade secret

### SECTION 3 - HAZARDS IDENTIFICATION

**ROUTES OF EXPOSURE:** Toner powders are encased in a cartridge. Minimal exposure through inhalation or skin contact is expected when used as intended.

**POTENTIAL HEALTH EFFECTS:** Health effects from this product are expected to be negligible, when product is used as intended. See Section 11, Toxicology Information.

**Immediate Effects:**

INHALATION: Minimal irritation to respiratory tract, as for any non-toxic dust

SKIN: Not expected to cause skin irritation

EYES: Not expected to cause eye irritation

INGESTION: Not an expected route of exposure

**Chronic Effects:** None known

SIGNS AND SYMPTOMS OF EXPOSURE: Minor irritation to respiratory tract.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

**SECTION 4 - FIRST AID MEASURES**

INHALATION: Remove person to fresh air. Seek medical attention if symptoms occur.

EYES: If particles get into eye, flush thoroughly with water. Seek medical attention if symptoms occur.

SKIN: Wash thoroughly with water. Seek medical attention if symptoms occur.

INGESTION: Dilute stomach contents with several glasses of water. Seek medical attention if symptoms occur.

**SECTION 5 - FIRE FIGHTING MEASURES**

FLASH POINT: Not applicable

FIRE & EXPLOSION HAZARDS: Toner is a combustible powder. Like most organic powders, it can form explosive mixtures when dispersed in air.

EXTINGUISHING MEDIA: Water, dry chemical, carbon dioxide, or foam.

FIRE FIGHTING INSTRUCTIONS: Avoid inhalation of smoke. As for any fire, wear protective clothing and self-contained breathing apparatus.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

SPILL OR LEAK: Sweep up or vacuum spilled toner and carefully transfer into sealable waste container. Sweep slowly to minimize generation of dust during clean up. If a vacuum is used, the motor must be rated as dust tight. A conductive hose bonded to the machine should be used to reduce static buildup. Clean up residue if necessary with soap and water. Wash or dry clean garments after removing loose toner.

**SECTION 7 - HANDLING AND STORAGE**

HANDLING: No special precautions, when used as intended.

STORAGE: Avoid high temperatures.

**SECTION 8 - EXPOSURE CONTROL - PERSONAL PROTECTION**

No special personal protection indicated, when used as intended in Xerox Phaser color printers.

THRESHOLD LIMIT VALUE (TLV): 10 mg/m<sup>3</sup> (total dust)

PERMISSIBLE EXPOSURE LIMIT (PEL): 15 mg/m<sup>3</sup> (total dust);  
5 mg/m<sup>3</sup> (respirable dust)

SHORT-TERM EXPOSURE LIMIT (STEL): None established

CEILING LIMIT: None established

XEROX EXPOSURE LIMIT (XEL): 2.5 mg/m<sup>3</sup> (total dust);  
0.4 mg/m<sup>3</sup> (respirable dust)

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE/ODOR: Black, blue, red, or yellow powders/faint odor

BOILING POINT: Not applicable

SOLUBILITY IN WATER: Insoluble

EVAPORATION RATE: Not applicable

VAPOR DENSITY (Air = 1): Not applicable

VOLATILE: Not applicable

SOFTENING RANGE: 110-140 degrees F (43-60 degrees C)

MELTING POINT: Not available

SPECIFIC GRAVITY (Water = 1): Approximately 1

VAPOR PRESSURE (mm Hg): Not applicable

pH: Not applicable

## **SECTION 10 - STABILITY AND REACTIVITY**

STABILITY: Stable.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizers

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: During a fire, toxic gases may be generated by thermal decomposition or combustion.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

This material has been evaluated by Xerox Corporation. The toxicity data noted below is based on test results of similar toners.

Oral LD50: > 5 g/kg (rats), practically non-toxic

Dermal LD50: > 5 g/kg (rabbits), practically non-toxic

Inhalation LC50: > 5 mg/l (rats; 4 hour exposure), practically non-toxic

Inhalation LD50: > 20 mg/l (rats; calculated for 1 hour exposure), non-toxic per DOT

Eye Irritation: Non-irritating (rabbits)

Skin sensitization: Non-irritating (rabbits; human patch)

Human Patch: Non-irritating, non-sensitizing

Mutagenicity: No mutagenicity detected in Ames assay

Carcinogens: None present

Additional Information: The results obtained from a Xerox-sponsored Chronic Toner Inhalation Study demonstrated no lung changes in rats for the lowest (1 mg/m<sup>3</sup>) exposure level (i.e., the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25 percent of the animals at the middle (4 mg/m<sup>3</sup>) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m<sup>3</sup>) exposure level. The findings are attributed to *lung overloading*, a generic response to excessive

amounts of any dust retained in the lungs for a prolonged period. This study was conducted using a special test toner to comply with EPA testing protocol. The test toner was ten times more respirable than commercially available Xerox toner and would not be functionally suitable for Xerox equipment.

### **SECTION 12 - ECOLOGICAL INFORMATION**

Aquatic 96 hour LC50: > 1000 mg/l (fathead minnows; rainbow trout)

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

These materials are not RCRA hazardous wastes as specified in 40 CFR 261. State and local waste disposal requirements, however, may be more restrictive. Dispose in accordance with all federal, state, and local regulations. Incinerate only in a closed container.

### **SECTION 14 - TRANSPORT INFORMATION**

DOT: Not regulated.

### **SECTION 15 - REGULATORY INFORMATION**

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

RCRA: TCLP metals below hazardous waste levels set by EPA.

CALIFORNIA PROPOSITION 65: Not regulated

NEW JERSEY TRADE SECRET REGISTRATION NUMBERS: (See Section 2: Ingredients)

Polymer: 80100252-5001P

Wax: 80100252-5012P

Cyan pigment: 80100252-5004P

Magenta pigment: 80100252-5011P

Yellow pigment: 80100252-5010P

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

### **SECTION 16 - OTHER INFORMATION**

NFPA 704: Health-0, Fire-3, Reactivity-0 (All colors)

Original preparation date: 7/26/00

Xerox MSDS #: A-0617, A-0618, A-0619, A-0620

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MSDS information: (503) 685-4093

Transportation Emergency (Chemtrec): 800-424-9300