

# XEROX

## MATERIAL SAFETY DATA SHEET

Manufacturer: Xerox Corporation, Office Group  
P. O. Box 1000, Wilsonville, Oregon, 97070-1000

**MSDS No.:** OPB-6527  
**Date:** August 22, 2000  
**Revision Date:** March 16, 2005

### SECTION 1- PRODUCT IDENTIFICATION

<u>Product Names</u>	<u>Part Numbers</u>
Black Toner Cartridge	016-1913-00, 016-1917-00
Cyan Toner Cartridge	016-1914-00, 016-1918-00
Magenta Toner Cartridge	016-1915-00, 016-1919-00
Yellow Toner Cartridge	016-1916-00, 016-1920-00
Supplies Start up kit	2135SS
Black Imaging Drum	016-1921-00
Cyan Imaging Drum	016-1922-00
Magenta Imaging Drum	016-1923-00
Yellow Imaging Drum	016-1924-00
Imaging Drum Pack (cyan, magenta, yellow)	016-1935-00

*Note: Imaging Drums come preloaded with a small amount of toner.*

**Product Use: XEROX Phaser ® 2135 color printers**

### SECTION 2 - INFORMATION ON INGREDIENTS

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

Eye: 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 soap and 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° F (43-60°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 LD<sub>50</sub>: >5 g/kg (rats), practically non-toxic  
Dermal LD<sub>50</sub>: > 5 g/kg (rabbits), practically non-toxic  
Inhalation LC<sub>50</sub>: > 5 mg/l (rats; 4 hour exposure), practically non-toxic  
Inhalation LD<sub>50</sub>: > 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 (ie., the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% 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 LC<sub>50</sub>: > 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)

Xerox Corporation

Office Group

Environmental, Health & Safety

P.O. Box 1000

Mail Stop 7063-512

Wilsonville, Oregon 97070

**Safety Information: (800) 828-6571**

Health Emergency: 585-422-2177

Transportation Emergency (Chemtrec): 800-424-9300