

# XEROX

## MATERIAL SAFETY DATA SHEET

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

**MSDS No.:** OPB-6518  
**Date:** June 3, 1998  
**Revision Date:** December 9, 2008

### SECTION 1- PRODUCT IDENTIFICATION

<u>Trade Names</u>	<u>Xerox Part No.</u>
Black toner cartridge	016-1678-00
Cyan toner cartridge	016-1679-00
Magenta toner cartridge	016-1680-00
Yellow toner cartridge	016-1681-00

**Product Use:** XEROX Phaser ® 780 color printers

### SECTION 2 - INFORMATION ON INGREDIENTS

Toners are a proprietary blend of resins and pigments, encased in a cartridge.

### 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 or sensitization.

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, as for any non-toxic dust.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known.

### SECTION 4 - FIRST AID MEASURES

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

INGESTION: Dilute stomach contents by drinking several glasses of milk or water. Seek medical attention.

INHALATION: Unlikely route of exposure. Remove person to fresh air. Seek medical attention if symptoms occur.

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

## **SECTION 5 - FIRE FIGHTING MEASURES**

FLASH POINT: Not applicable

FIRE & EXPLOSION HAZARDS: Toner is a combustible dust. 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 materials 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 cold 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® laser 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 in cartridge. Slight odor.

SOLUBILITY IN WATER: Not water soluble.

MELTING POINT: Not available

SPECIFIC GRAVITY (Water = 1): 1

## **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. Avoid breathing smoke.

## **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

Eye Irritation: Not an irritant

Skin sensitization: Not a sensitizer

Skin irritation: Not an irritant

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 LC<sub>50</sub> (fathead minnows): > 1000 mg/l

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

These products are not a hazardous waste as specified in 40CFR261. Dispose in accordance with all federal, state, and local regulations.

In spent condition, copper-zinc ferrite (CAS 66402-68-4) may be present in the remnant material at sufficient levels to classify the remnant material as a hazardous waste under the California Code of Regulations, Title 22, Division 4.5, and The Hazardous Waste Designation Decree in the Netherlands.

## **SECTION 14 - TRANSPORT INFORMATION**

DOT: Not regulated.

## **SECTION 15 - REGULATORY INFORMATION**

TSCA: This material has been manufactured in compliance with the EPA Toxic Substances Control Act (TSCA).

RCRA (Resource Conservation and Recovery Act): Not a hazardous waste as specified in 40CFR261. TCLP below hazardous waste levels set by EPA.

## **SECTION 16 - OTHER INFORMATION**

Xerox Corporation  
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P.O. Box 1000  
Mail Stop 7063-512  
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Safety Information: 800-828-6571  
Health Emergency: 585-422-2177  
Transportation Emergency (Chemtrec): 800-424-9300