

XEROX

MATERIAL SAFETY DATA SHEET

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

Preparation Date: May 29, 2003

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/m³ (total dust)
PERMISSIBLE EXPOSURE LIMIT (PEL): 15 mg/m³ (total dust); 5 mg/m³ (respirable dust)
SHORT TERM EXPOSURE LIMIT (STEL): None established

CEILING LIMIT: None established

XEROX EXPOSURE LIMIT (XEL): 2.5 mg/m³ (total dust); 0.4 mg/m³ (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 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/m³) 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/m³) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m³) 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: 8/22/00

Revision 5/29/03: Added Part Numbers for Imaging Drums, which come preloaded with small amounts of toner; updated "Office Printing Business" to "Office Group"; Updated telephone numbers and mail station.

Xerox Corporation

Office Group

Environmental, Health & Safety

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