



venuscar.sam

**PRODUCT HEALTH INFORMATION SHEET
LEXMARK PRINT CARTRIDGE: P/N 140100A**

Revised 05/02/97

Lexmark International, Inc.
740 New Circle Rd. NW
Lexington, Kentucky 40550-1876 Information: 1-606-232-3000
Emergency: 1-606-232-3333

Lexmark has determined that Material Safety Data Sheets are not required for print cartridges. For customer convenience, Lexmark provides product information in this familiar format.

SECTION 1 - PRODUCT IDENTIFICATION

Name: Lexmark Print Cartridge
P/N: 140100A
Chemical Family: Cartridge Contains Toner
Product Use: Replacement Print Cartridge for:
HP LaserJet Cartridge
Canon EP-BS Cartridge
EP-BII Cartridge

SECTION 2 - GENERAL COMPOSITION OF TONER CONTAINED IN CARTRIDGE

COMPONENT	PERCENT (wt.)
Styrene Acrylate Copolymer	50-60
Iron Oxides	35-45
Polypropylene	<5

SECTION 3 - HAZARDS IDENTIFICATION

The following information is based on data obtained from testing of the toner contained in this product, similar toners, and on the characteristics of toner component chemicals.

Primary Routes of Entry: Inhalation of toner dust, skin contact

Signs and Symptoms of Exposure: Large amounts of toner on skin or mucus membranes (mouth, eyes & nose) may cause discomfort.

Medical Conditions Aggravated by Exposure: None known at intended levels of use.

Physical Hazards: As with most finely divided dusts, explosion is possible when extremely high concentrations of dust and an ignition source are present. Not a hazard under normal conditions of use.

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POTENTIAL HEALTH EFFECTS:

- Inhalation:** Short Term Exposure - As with exposure to high concentrations of any dust, minimal respiratory tract irritation may occur if excessive amounts of toner dust are inhaled. Significant exposure not probable with intended use.
Long Term Exposure - Chronic inhalation exposure to excessive concentrations of iron oxide-containing dusts has resulted in a condition identified as siderosis, a relatively benign pneumoconiosis, caused by deposition of iron oxide particles in the lung. Significant exposure not probable with intended use.
- Skin Contact:** Short Term Exposure - Toner is not a skin irritant and has low dermal toxicity. Significant exposure not probable with intended use.
Long Term Exposure - Rare individuals may note skin rash with repeated contact. Significant exposure not probable with intended use.
- Eye Contact:** Short Term Exposure - Toner may act as a mechanical irritant.
Long Term Exposure - No adverse chronic effects known. Significant exposure not probable with intended use.
- Ingestion:** Short Term Exposure - Test data indicates toner is of low acute oral toxicity. Swallowing excessive amounts of pure iron oxide can cause the same toxic effects caused by swallowing excessive amounts of any insoluble iron salt or iron dietary supplement. Initial symptoms include abdominal pain, seizures, and increased heart and breathing rates. Exposure not probable with intended use.
Long Term Exposure - Toner is not expected to be chronically toxic. Chronic exposure to high doses of pure iron oxide has caused cardiovascular, liver, and blood component effects. Exposure not probable with intended use.

SECTION 4 - FIRST AID MEASURES

- Inhalation:** Remove to fresh air. Seek medical attention if breathing becomes difficult.
- Skin Contact:** Wash affected area with soap and water. Seek medical attention if irritation develops and persists.
- Eye Contact:** Do not rub eyes. Flush immediately with plenty of water. Remove contact lenses and continue flushing for at least 15 minutes. Seek medical attention if irritation develops and persists.
- Ingestion:** Immediately rinse mouth out with plenty of water. If within 30 minutes after ingestion, give victim a small glass of water or milk (NEVER give anything by mouth to an unconscious person). If a large amount of toner has been ingested, contact physician or poison center. Do not induce vomiting unless instructed to do so by a physician or poison center.

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SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not applicable

Autoignition: Not applicable

Flammability Limits (%): Not applicable

Extinguishing Media: Water, foam, carbon dioxide or dry chemical

Firefighting: Fire may produce small amounts of hazardous decomposition products such as carbon dioxide, carbon monoxide, and unidentified organics. NIOSH approved self contained breathing apparatus may be required if a large number of cartridges is involved.

Fire and Explosion Hazard: No unusual fire or explosion hazards are known for this product.

Hazardous Combustion Products: Oxides of carbon, organic acids, low molecular weight organics.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Occupational Spill: The volume of toner in a cartridge is minimal. If a dust cloud is present due to a spill involving a large number of cartridges, remove all sources of ignition such as open sparks, flames or static discharge to prevent the ignition of the dust. Minimize dust generation during clean up. Sweep up spill with non-metallic broom and dust pan. Contain for disposal.

SECTION 7 - HANDLING AND STORAGE

To avoid damage to cartridge and accidental contact with toner - KEEP OUT OF REACH OF SMALL CHILDREN.

STORE IN A COOL, DRY PLACE.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

OSHA (PEL):	5 mg/m ³ (dust; respirable dust; PNOR ¹)
	15 mg/m ³ (dust; total dust; PNOR)
ACGIH (TLV):	5 mg/m ³ (iron oxide dust and fume, measured as iron)

Note: (1) Particulates Not Otherwise Regulated

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Ventilation: None required with intended use. Mechanical room ventilation is recommended.

Eye Protection: None required for intended use in printer.

Protective Clothing: None required for intended use in printer.

Gloves: None required for intended use in printer.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Description: Printer cartridge with sealed toner reservoirs. Toner is finely divided black powder with faint odor.

Melting Point: Not applicable	Freezing Point: Not applicable
Pressurized: No	Boiling Point: Not applicable
pH: Not applicable	Specific Gravity (H₂O = 1): Not applicable
Evaporation Rate: Not applicable	Water Solubility: Toner solubility is negligible.
% Volatility: Not applicable	

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Ignition sources in combustible atmospheres of toner dust. Throwing toner into an open fire.

Incompatibilities: None known

Hazardous Decomposition: Oxides of carbon, acid gases, low molecular weight organics

Polymerization: This product will not polymerize.

SECTION 11 - TOXICOLOGY INFORMATION

Acute Toxicity: Not acutely toxic.

Chronic Toxicity: Not expected to be chronically toxic. Long term exposure to excessive concentrations of iron oxide-containing dusts has resulted in a condition identified as siderosis, a relatively benign pneumoconiosis, caused by deposition of iron oxide particles in the lung. Ingestion of high doses of insoluble iron salts may result in cardiovascular, liver, and blood component effects.

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SECTION 12 - ECOLOGICAL INFORMATION

No data available

SECTION 13 - DISPOSAL INFORMATION

This product is not a listed or hazardous waste in accordance with Federal Regulation 40 CFR Part 261. If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, it is the responsibility of the product user to determine at the time of disposal whether a material has been contaminated and should be classified as a hazardous waste. Disposal is subject to local, state and federal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

This product is not regulated as a hazardous material by the DOT.

SECTION 15 - REGULATORY INFORMATION

All ingredients are registered under the **Toxic Substances Control Act (TSCA)** or under polymer exemption.

All ingredients are exempt, registered or considered registered (polymers) under **European Inventory of Existing Commercial Chemical Substances (EINECS)**.

None of the product ingredients are listed as **Emergency Planning and Community Right-to Know Act (EPCRA)- Section 302: Extremely Hazardous Substances (EHS)**.

None of the product components are present above the minimum quantities of listed chemicals in **EPCRA Section 313 Supplier Notification**.

No ingredients are listed as **OSHA, NTP, or IARC** known or potential carcinogens.

This product contains no known materials which the State of California has found to cause cancer, birth defects or other reproductive harm - **CALIFORNIA PROPOSITION 65**.

SECTION 16 - OTHER

Disclaimer: Information is most current known to Lexmark at the time of preparation and is believed to be accurate. No warranty as to its accuracy or completeness is expressed or implied.