



MATERIAL SAFETY DATA SHEET
LEXMARK PRINT CARTRIDGE
P/N 140191A

REVISED DATE: 9/20/00

Lexmark International, Inc.
740 West New Circle Rd.
Lexington, Kentucky 40550-1876 Information: 1-859-232-3000
Emergency: 1-859-232-3333

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 - CHEMICAL PRODUCTS & COMPANY IDENTIFICATION

Name: Lexmark Print Cartridge
Part Number: 140191A
Additional Part Number: 140191X
Chemical Family: Cartridge contains toner
Product Use: Electrophotography

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	PERCENT (wt.)	CAS#	OSHA PEL	ACGIH TLV
Styrene - Butylacrylate Copolymer	50 - 60	66655-10-7	(1)	(1)
Iron Oxide	35 - 45	1317-61-9	(1)	(1)
Polypropylene	< 5	9003-07-0	(1)	(1)

Notes (1) Specific work place exposure limits have not been established.

SECTION 3 - HAZARDS IDENTIFICATION

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

Signs and Symptoms of Exposure: Toner on skin or mucus membranes (mouth, nose) may cause discomfort.

Medical Conditions Aggravated by Exposure: None known at intended levels of use. Exposure to high airborne dust concentrations, including toner, may aggravate existing respiratory conditions.

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.

POTENTIAL HEALTH EFFECTS:

Inhalation: Short Term Exposure - Testing and/or information on this or similar toners or on the constituents of this toner indicate low inhalation toxicity. As with exposure to high concentrations of any dust, minimal respiratory tract irritation may occur if excessive amounts of toner dust are inhaled. Long Term Exposure - Respirable size particles may collect in lungs and show up on X-rays (iron oxide). No adverse changes in the lungs results from this accumulation. Exposure not probable with intended use.

Skin Contact: Short Term Exposure - Testing and/or information on this or similar toners or on the constituents of this toner indicate this toner is not a skin irritant and is of low dermal toxicity. Exposure not probable with intended use. Long Term Exposure - Rare individuals may note skin rash with repeated contact. Exposure not probable with intended use.

Ingestion: Short Term Exposure - Testing and/or information on this or similar toners or on the constituents of this toner indicate this toner is of low oral toxicity. Exposure not probable with intended use. Long Term Exposure - No adverse chronic effects known. Exposure not probable with intended use.

Eye Contact: Short Term Exposure - Toner may act as a mechanical irritant. Exposure not probable with intended use. Long Term Exposure - No adverse chronic effects known. Exposure not probable with intended use.

SECTION 4 - FIRST AID MEASURES

Inhalation: If symptoms, such as shortness of breath or persistent coughing are experienced, remove source of contamination and move individual to fresh air. If symptoms persist, seek medical attention.

Skin Contact: Wash affected area with soap and water. Should irritation occur, seek medical attention.

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: If conscious wash out mouth with plenty of water. Seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not applicable

Autoignition: Not available

Extinguishing Media: Water, dry chemical, or foam.

Firefighting: NIOSH approved self contained breathing apparatus may be required.

Fire and Explosion Hazard: Like many finely divided materials, toner dust, in high concentrations can form an explosive mixture in air which, if ignited, could result in dust explosion.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide, and low molecular weight organics.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Occupational Spill: If a dust cloud is possible due to a spill, 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. To avoid possible dust explosion, do not use vacuum cleaners to cleanup spills. Contain for disposal. Oil permeated sweeping compound may assist in the cleanup of toner spilled on nonporous surfaces.

SECTION 7 - HANDLING AND STORAGE

Store in a cool dry place. Store away from oxidizing materials.

When handling, minimize generation of dust. Supply adequate ventilation.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation:	Mechanical room ventilation.
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.
Respirator:	None required for intended use in printer.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Description: Black powdery material, with slight odor.

Pressurized: No

Boiling Point: Not applicable

pH: Not applicable

Evaporation Rate: Not applicable

% Volatility: Not applicable

Vapor Density (Air = 1): Not applicable

Softening Point: Not available

Specific Gravity (H₂O = 1): Not available

Water Solubility: Negligible

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: None known.

Incompatibilities: Strong oxidizing agents

Hazardous Decomposition: Carbon dioxide, carbon monoxide, and unidentified organics.

Polymerization: Will not occur.

SECTION 11 - TOXICOLOGY INFORMATION

Acute Toxicity: Not acutely toxic; LD₅₀ expected to be > 5000 mg/kg.

Chronic Toxicity: Contents of cartridge not expected to be toxic. Industry tests on similar generic toner showed no signs of overt toxicity. Rats exposed to high levels of toner showed a chronic inflammatory response and a mild to moderate degree of lung fibrosis. There were no pulmonary changes of any type at the lower toner exposure level, which is most relevant in regards to potential human exposures.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental impact rating (0-4): Not available

Acute Aquatic Toxicity: Not available

Degradability: Not available

Log Bioconcentration Factor (BCF): Not available

Log Octanol/Water Partition Coefficient: Not 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, under RCRA, 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

Not classified as a hazardous material or substance under **DOT**.

SECTION 15 - REGULATORY INFORMATION

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

All ingredients are registered or consider registered (polymers) under **Canada Domestic Substances List (DSL)**.

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

None of the product ingredients has a final Reportable Quantity (RQ) under **EPCRA Title III - CERCLA Section 302**.



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This material contains no ingredients which, if spilled or released in quantities equal to or greater than the Reportable Quantity (RQ), are subject to the reporting requirements of **CERCLA and/or EPCRA (40 CFR parts 302 and 355)**.

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

SECTION 16 - OTHER

Disclaimer: Data 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.