



**MATERIAL SAFETY DATA SHEET
LEXMARK PRINT CARTRIDGE
P/N 140109A**

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 140109A
Part Number: 140109A
Additional Part Number: 140109X
Chemical Family: Cartridge contains toner
Product Use: HP LaserJet Series 5Si/5Si MX (HP P/N C3909A)

SECTION 2 - GENERAL COMPOSITION OF TONER CONTAINED IN CARTRIDGE

COMPONENT	PERCENT (wt.)	CAS#	OSHA PEL	ACGIH TLV
Styrene Acrylate Copolymer	45 - 55	25767-47-9	(1)	(1)
Iron Oxide	40 - 50	12227-89-3	(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, eyes, and 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.

POTENTIAL HEALTH EFFECTS:**Inhalation:**

Short Term Exposure - As with exposure to high concentrations of any non-toxic dust, minimal respiratory tract irritation may occur if excessive amounts of toner dust are inhaled. Testing and/or information on similar toners, or on the constituents of this toner, indicate low acute inhalation toxicity. Significant exposure not probable with intended use.

Long Term Exposure - Respirable size particles may collect in lungs and show up on X-rays (iron oxide). No adverse changes in the lungs result from this accumulation. Significant exposure not probable with intended use.

Skin Contact: Short Term Exposure - Tests or information on similar toners, or on the constituents of this toner, indicate low acute 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.

Ingestion:

Short Term Exposure - Tests or information on similar toners, or on the constituents of this toner, indicate low acute oral toxicity. Significant 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.

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.

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. 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, immediately wash mouth out with plenty of water. If irritation occurs, seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not applicable

Autoignition: Not available

Extinguishing Media: CO₂, water spray or fog, dry chemical, or foam.

Firefighting: NIOSH approved self contained breathing apparatus may be required if large numbers of cartridges are involved.

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

Hazardous Combustion Products: Carbon dioxide, carbon monoxide, and 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 possible 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. To avoid possible dust explosion do not use vacuum cleaners to clean up spills. Oil permeated sweeping compound may assist in the cleanup of large amounts of toner spilled on non-porous surfaces. Contain for disposal.

SECTION 7 - HANDLING AND STORAGE

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

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Limits:**

OSHA : 15 mg/m³ (total dust, particulates not otherwise regulated-PNOR)
5 mg/m³ (respirable dust, particulates not otherwise regulated-PNOR)

ACGIH : 10 mg/m³ (total dust, particulates not otherwise classified-PNOC)
3 mg/m³ (respirable dust, particulates not otherwise classified-PNOC)

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

Eye Protection: None required with intended use in printer.

Protective Clothing: None required with intended use in printer.

Gloves: None required with intended use in printer.

Respirator: None required with intended use in printer.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Description: Print cartridge with sealed toner reservoirs. Toner is finely divided black powder with slight odor.

Pressurized: No

Boiling Point: Not applicable

pH: Not applicable

Evaporation Rate: Not applicable
negligible.

% Volatility: Not applicable

Vapor Density (Air = 1): Not applicable

Softening Point: Not available

Specific Gravity (H₂O = 1): Not available

Water Solubility: Toner solubility is

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Ignition sources, excessive heat, sparks and open flame in combustible atmosphere of toner dust.

Incompatibilities: Strong oxidizers

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

Polymerization: Will not occur.

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.

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 - WASTE DISPOSAL INFORMATION

This product is not a listed or hazardous waste in accordance with Federal Regulation 40 CFR Part 261 or the Code of California Regulations Title 22. 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

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

None of the product ingredients has a final Reportable Quantity (RQ) under **CERCLA Section 304 or SARA Title III Section 355**.

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



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None of the product ingredients are present at levels subject to the reporting requirement of **Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.**

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