

MATERIAL SAFETY DATA SHEET
LEXMARK LINEA PRINT CARTRIDGE: P/N 140198A



Lexmark International, Inc.
740 West New Circle Rd.
Lexington, Kentucky 40511-1876
Information: 1-606-232-3000

Revision Date: 02/10/00

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 - CHEMICAL PRODUCTS & COMPANY IDENTIFICATION

Name: Lexmark Linea Print Cartridge

P/N: 140198A

Chemical Family: Toner

Product Use: HP Laserjet 4/4 Plus Printers

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>PERCENT</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIHTLV</u>
Styrene Acrylate Copolymer	55 - 65	25767-47-9	(1)	(1)
Polypropylene	< 5	9003-07-0	(1)	(1)
Iron oxide	35 - 45	1317-61-9	(1)	5 mg/m ³
		1309-37-1	(1)	(as iron)

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

SECTION 3 - HAZARDS IDENTIFICATION

Primary Routes of Entry: Dust inhalation. Skin contact.

Signs and Symptoms of Exposure: Toner on skin or mucus membranes (mouth & nose).

Medical Conditions Aggravated by Exposure: None known.

MATERIAL SAFETY DATA SHEET
LEXMARK LINEA PRINT CARTRIDGE: P/N 140198A

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.

Long Term Exposure - Chronic inhalation exposure to high airborne concentrations may result in irreversible adverse effects. Adverse health effects are not anticipated at exposures maintained below industrial hygiene control limits (OSHA PEL). 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.

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

Long Term Exposure - Rare individuals may note skin rash with repeated contact.

Ingestion: Short Term Exposure - Tests or information on similar toners, or on the constituents of this toner, indicate low acute oral toxicity. Exposure not probable with intended use.

Long Term Exposure - Toner is not expected to be chronically toxic. 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.

SECTION 4 - FIRST AID MEASURES

Inhalation: Remove from area of exposure.

Skin Contact: Wash affected area with soap and water.

Eye Contact: Flush immediately with a large amount of running water for 15 minutes.

Ingestion: No treatment needed.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not Available

Autoignition: Not Available

Flammability Limits (%): LEL: Not Available **UEL:**Not Available

Extinguishing Media: Water, dry chemical, or foam.

MATERIAL SAFETY DATA SHEET
LEXMARK LINEA PRINT CARTRIDGE: P/N 140198A

Firefighting: Fire may produce hazardous decomposition products such as carbon dioxide, carbon monoxide & unidentified organics.

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, Low molecular weight organics.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

If dust cloud is possible during spill, remove all sources of ignition. 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 prevent 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

Ventilation: Mechanical room ventilation.

Eye Protection: None required for intended use in printer.

Clothing: No special clothing 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 powder with faint odor
Pressurized: No
Boiling Point: Not applicable
% Volatility: Not applicable

pH: Not applicable
Water Solubility: Insoluble

Evaporation Rate: Not applicable

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: None known

Incompatibilities: Oxidizers

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

Polymerization: Will not occur.

MATERIAL SAFETY DATA SHEET
LEXMARK LINEA PRINT CARTRIDGE: P/N 140198A

SECTION 11 - TOXICOLOGY INFORMATION

Acute Toxicity: Not acutely toxic: LD₅₀ expected to be > 5000mg/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 regard to potential human exposures. Toner is not listed by IARC, NTP, or OSHA.

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

As formulated and packaged this toner is not classified as a hazardous waste by either Federal Regulation 40 CFR Part 261 or the Code of California Regulations Title 22. Dispose of in accordance with local, state, and federal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Not classified under **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)**.

Not a WHMIS controlled product. All ingredients are listed on or are considered polymers under the **Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL)**.

**MATERIAL SAFETY DATA SHEET
LEXMARK LINEA PRINT CARTRIDGE: P/N 140198A**

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

Components present above the minimum quantities of listed chemicals in **EPCRA Section 313 Supplier Notification**: This product contains <5 percent of a zinc compound.

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**.

This product does not contain any MSL hazardous substances or extraordinarily hazardous substances above the reporting de minimus concentration - **Massachusetts Right-to-Know**.

This product does not contain any Pennsylvania listed hazardous substances or special hazardous substances above the reporting de minimus concentration. **Pennsylvania Right-to-Know**.

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.