



**MATERIAL SAFETY DATA SHEET  
LEXMARK BLACK HIGH RESOLUTION  
PRINT CARTRIDGE: P/N 18L0032**

**(82)**

Revised Date: 10/14/02

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 - PRODUCT IDENTIFICATION**

**Name:** Lexmark Black High Resolution Print Cartridge (82)  
**P/N:** 18L0032  
**Family:** Contains water based inks  
**Product Use:** Lexmark Color Jetprinters Z55, Z65, Z65n, Z65p

**SECTION 2 - GENERAL COMPOSITION OF INKS CONTAINED IN CARTRIDGE**

<b>COMPONENT</b>	<b>PERCENT (wt.)</b>	<b>CAS #</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>
Carbon Black	1-5	1333-86-4	3.5 mg/m <sup>3</sup> (1)	3.5 mg/m <sup>3</sup> (1)
Acrylic Terpolymer	0.1-2	(2)	(3)	(3)
Water Soluble Organic Solvents	10-20	(2)	(3)	(3)
Hydroxylated Alkane	1-10	(2)(4)	(3)	(3)
Acrylic Resin	0.1-5	(2)(5)	(3)	(3)
Water	60-78	7732-18-5	(3)	(3)

- Notes:**
- (1) Total dust (measured as carbon black).
  - (2) Trade secret of patented molecule.
  - (3) Specific workplace exposure limits have not been established.
  - (4) New Jersey Trade Secret Registration Number (NJTSRN) 80100451-5004.
  - (5) Manufacturer's proprietary product, not hazardous per US OSHA 29 CFR 1910.1200.

**SECTION 3 - HAZARDS IDENTIFICATION**

The following information is based on data obtained from testing the ink contained in the cartridge and on characteristics of ink component chemicals.

**Primary Routes of Entry:** Skin contact, ingestion of ink.

**Signs and Symptoms of Exposure:** Ink stains on skin or mucous membranes (mouth, eyes & nose) may cause discomfort.

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



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<b>Inhalation:</b>	<u>Short Term Exposure</u>	--	If ink mist is inhaled, respiratory tract irritation may occur. Exposure not probable with intended use.
	<u>Long Term Exposure</u>	--	No adverse chronic effects known. Exposure not probable with intended use.
<b>Skin Contact:</b>	<u>Short Term Exposure</u>	--	Not a skin irritant.
	<u>Long Term Exposure</u>	--	No adverse chronic effects known. Not a dermal sensitizer.
<b>Eye Contact:</b>	<u>Short Term Exposure</u>	--	Not an eye irritant. Exposure not probable with intended use.
	<u>Long Term Exposure</u>	--	No adverse chronic effects known. Exposure not probable with intended use.
<b>Ingestion:</b>	<u>Short Term Exposure</u>	--	Low acute oral toxicity.
	<u>Long Term Exposure</u>	--	No adverse chronic effects expected but based on component characteristics, liver, kidney, and CNS effects are possible if large quantities of ink are ingested.

**SECTION 4 - FIRST AID MEASURES**

**Inhalation:** Remove to fresh air. Seek medical attention if breathing becomes difficult.

**Skin Contact:** Remove contaminated clothing. Flush affected area with water. Seek medical attention if irritation develops and persists.

**Eye Contact:** 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). Contact physician or poison center. Do not induce vomiting unless instructed to do so by a physician or poison center.

**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**

The volume of liquid in a cartridge is minimal. Absorb small ink spills with cloth or paper towels or other suitable material. Place in a container for disposal. For large spills, involving a large number of cartridges, dike around spill with absorbent material. Transfer contaminated diking material to separate, suitable containers for recovery or disposal. Ventilate area and wash spill site after material pickup is complete. Unless specifically permitted, keep waste out of sewers, watershed and waterways. See section 13 for information on the disposal of recovered material.

**SECTION 7 - HANDLING AND STORAGE**

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

STORE IN A COOL, DRY PLACE.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ventilation:** None required for 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**

<b>Description:</b> Black liquid with faint odor.	<b>Freezing Point:</b> Approx.-12 to -15 <sup>0</sup> C
<b>Pressurized:</b> No	<b>pH:</b> 7.0-8.5
<b>Water Solubility:</b> Fully Miscible	<b>Percent Volatile:</b> Approx. 18.7
<b>Evaporation Rate (Butylacetate =1):</b> Approx. 3.5	<b>Specific Gravity:</b> Approx. 1.0
<b>Vapor Density (Air =1):</b> Approx. 1.6	

**SECTION 10 - STABILITY AND REACTIVITY**

**Conditions to Avoid:** None known                      **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. Based on testing of inks, LD<sub>50</sub> (oral, rat) >2000 mg/kg.  
**Chronic Toxicity:** Not expected to be chronically toxic based on component information, volume, concentration, and intended use. Pure carbon black, a minor component of this ink, has been listed by IARC as a group 2B (possible carcinogen). This classification is based on rat "lung particulate overload" studies performed with airborne particulate carbon black. Ink is not listed by IARC, NTP, or OSHA.



**SECTION 12 - ECOLOGICAL INFORMATION**

No data available

**SECTION 13 - DISPOSAL INFORMATION**

This product is not a hazardous waste by characteristic or listing 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. In accordance with RCRA 40 CFR Sections 264.314 and 265.314, the placement of any liquid in landfills is prohibited. 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 listed on **the European Inventory of Existing Commercial Substances (EINECS)** list, have been registered on the **European List of New Chemical Substances (ELINCS)**, or are exempt.

All ingredients are listed in **Australian Inventory of Commercial Substances (AICS)**, have been registered, or are exempt.

All ingredients are listed on the Canadian **Domestic Substances List (DSL)**, have been registered on the **Non-Domestic Substances List (NDSL)**, or are exempt.

All ingredients are listed on the Japanese **Existing and New Chemical Substances (ENCS)** list, have been registered, or are exempt.

All ingredients are listed on the Korean **Existing Chemicals List (ECL)**, have been registered, or are exempt.

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

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**.



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This product contains a component (carbon black CAS# 1333-86-4) at a concentration above the MSL de minimus concentration - **Massachusetts Right to Know**.

This product contains a component (carbon black CAS# 1333-86-4) at a concentration above the de minimus concentration - **New Jersey Right to Know**.

This product contains a component (carbon black CAS# 1333-86-4) at a concentration above the de minimus concentration - **Pennsylvania Right to Know**.

**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.