



**MATERIAL SAFETY DATA SHEET  
LEXMARK SUPERSHARP WATERPROOF  
BLACK INK CARTRIDGE: P/N 1361400; 13400HC**

Revised 07/15/98

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 - CHEMICAL PRODUCTS & COMPANY IDENTIFICATION**

**Name:** Lexmark Supersharp Waterproof Black Ink Print Cartridge  
**P/N:** 1361400; 13400HC  
**Additional P/N:** 12A1130  
**Chemical Family:** Contains water soluble ink  
**Product Use:** Execjet IIc, Execjet II 4076 & IJ4076, WinWriter 100, WinWriter 150c, Color Jetprinters 1000, 1020, 2030, 2050, 2055, 3000, Medley 4c, 4X, 4SX

**SECTION 2 - GENERAL COMPOSITION OF INK 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 mgm <sup>3</sup> (1)
Humectant	5-12	(2)	(3)	(3)
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- Notes:** (1) Total dust, measured as carbon black  
(2) Trade secret or patented molecule  
(3) Specific workplace limits have not been established

**SECTION 3 - HAZARD IDENTIFICATION**

The following information is based on test data and characteristics of the ink component chemicals.

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

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

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

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**POTENTIAL HEALTH EFFECTS:**

- Inhalation:**    Short Term Exposure - If ink mist is inhaled, respiratory tract irritation may occur. Exposure not probable with intended use.  
                  Long Term Exposure - No adverse chronic effects are known. Exposure not probable with intended use.
- Skin Contact:** Short Term Exposure - The ink may be slightly irritating to skin.  
                  Long Term Exposure - No adverse chronic effects known. Ink is not a dermal sensitizer.
- Eye Contact:** Short Term Exposure - Ink may be slightly irritating to the eye. Exposure not probable with intended use.  
                  Long Term Exposure - No adverse chronic effects are known. Exposure not probable with intended use.
- Ingestion:**    Short Term Exposure - Ink has low oral toxicity. Ingestion of large amounts of ink may result in gastro-intestinal upset. Exposure not probable with intended use.  
                  Long Term Exposure - Chronic toxicological testing of the ink formulation has not been completed. Based on component characteristics, no adverse effects are expected.

**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

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**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 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, 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. Keep waste out of sewers, watershed and waterways.

### **SECTION 7 - HANDLING AND STORAGE**

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

**STORE IN COOL, DRY PLACE**

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

**Exposure Limits:**

<b>OSHA:</b>	3.5 mg/m <sup>3</sup> (carbon black, measured as total dust)
<b>ACGIH:</b>	3.5 mg/m <sup>3</sup> (carbon black, measured as total dust)

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

**Eye Protection:** None required with intended use.

**Protective Clothing:** None required, but mixture will stain clothing and skin.

**Gloves:** None required with intended use.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Description:** Cartridge contains black liquid with faint odor.

**Melting Point:** Ink; +1°C

**Freezing Point:** Ink; -7°C

**Pressurized:** No

**Vapor Density (Air = 1):** Ink; same as water

**Boiling Point:** Ink; 99-101°C

**pH:** Ink; 8.0-8.5

**Specific Gravity (H<sub>2</sub>O = 1):** Ink; 1.03

**Evaporation Rate (Butylacetate = 1):** Ink; 2.8

**Water Solubility:** Ink; Nearly 100%

**% Volatility:** 21.1

**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:** Low oral toxicity. LD<sub>50</sub> (oral;rat) >5000 mg/kg.

**Chronic Toxicity:** Not expected to be chronically toxic. Pure carbon black, a minor component of this ink, has been listed by IARC as group 2B (possible carcinogen) based on rat "lung particulate overload" studies on carbon black dust. Ink, containing carbon black, is not listed by IARC, NTP, or OSHA.

**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, 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.

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**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 the **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**.

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 contains a component (carbon black CAS# 1333-86-40) at concentrations above the MS� de minimus concentration- **Massachusetts Right-To-Know**.

This product contains a component (carbon black CAS# 1333-86-40) at concentrations above the de minimus concentration- **Pennsylvania Right-To-Know**.

This product contains a component (carbon black CAS# 1333-86-40) at concentrations above the de minimus concentration- **New Jersey 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.