



**MATERIAL SAFETY DATA SHEET  
HIGH RESOLUTION PRINTING  
PHOTO PRINT CARTRIDGE  
P/N 12A1990**

Revised Date: 2/15/01

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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:** High Resolution Printing Photo Print Cartridge

**P/N:** 12A1990

**Family:** Contains water soluble inks

**Product Use:** Lexmark Color Jetprinters 3200, 5000, 5700, 5770, 7000, 7200, 7200V, Optra Color 40 and 45, Z31, Z32, Z42, Z51, Z22, and Z82

**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>
Water Soluble Black Dyes	1-6	(1)(2)	(3)	(3)
Water Soluble Dyes	<1	(1)(4)	(3)	(3)
Water Soluble Organic Solvent	1-10	(1)	(3)	(3)
Water Soluble Organic Solvent	5-13	(1)(5)	(3)	(3)
Hydroxylated Alkane	3.5-7	(1)(6)	(3)	(3)
Water	60-85	7732-18-5	(3)	(3)

- Notes:**
- (1) Trade secret or patented molecule.
  - (2) New Jersey Trade Secret Registration Number 80100451-5009 and 5010.
  - (3) Specific workplace limits have not been established.
  - (4) Dye corresponding to color of ink:  
Magenta: New Jersey Trade Secret Registration Number 80100451-5005.  
Cyan: New Jersey Trade Secret Registration Number 80100451-5007.
  - (5) New Jersey Trade Secret Registration Number 80100451-5013.
  - (6) New Jersey Trade Secret Registration Number 80100451-5004.

**SECTION 3 - HAZARDS IDENTIFICATION**

The following information is based on data obtained from the characteristics of 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.

**POTENTIAL HEALTH EFFECTS:**

<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> -	The ink is not a skin irritant.
	<u>Long Term Exposure</u> -	No adverse chronic effects known. Ink is not a dermal sensitizer. Exposure not probable with intended use.
<b>Eye Contact:</b>	<u>Short Term Exposure</u> -	Ink is not an eye irritant.
	<u>Long Term Exposure</u> -	No adverse chronic effects known. Exposure is not probable with intended use.
<b>Ingestion:</b>	<u>Short Term Exposure</u> -	Oral toxicity expected to be low. Exposure not probable with intended use.
	<u>Long Term Exposure</u> -	No adverse chronic effects expected, but based on component characteristics, gastrointestinal, liver, kidney, and CNS effects are possible if large quantities of ink are ingested. Exposure not probable with intended use.

**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**

**Description:** Printer cartridge with sealed ink reservoirs. Ink has faint odor.  
**Melting Point:** Not applicable      **Freezing Point:** Not applicable  
**Pressurized:** No      **Boiling Point:** Not applicable  
**pH:** Not applicable (ink 7.0-8.5)      **Specific Gravity (H<sub>2</sub>O= 1):** Not applicable  
**Evaporation Rate:** Not applicable      **Water Solubility:** Ink is water soluble.  
**% Volatility:** Not applicable

**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 expected to be acutely toxic. Based on testing of inks and similar ink formulations, LD<sub>50</sub> (oral rat) expected to be >5000 mg/kg for inks.  
**Chronic Toxicity:** Not expected to be chronically toxic based on component information, volume, concentration, and intended use.

**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 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.

One ink component contains low concentrations of isopropyl alcohol (CAS# 67-63-0) and methylchloride (CAS# 74-87-3). These chemicals require export notification under the **Toxic Substances Control Act - TSCA 12(b)**.

All ingredients are exempt, registered or considered registered (polymers) under **European Inventory of Existing Commercial Chemical Substances (EINECS/ELINCS)**.

All ingredients are exempt, registered or considered registered (polymers) under the **Canadian Domestic Substances List (DSL/NDSL)**.

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 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:** 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.