



**MATERIAL SAFETY DATA SHEET
HIGH RESOLUTION PRINTING
BLACK PRINT CARTRIDGE: P/N 12A1970**

Revised Date: 11/27/00

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 - PRODUCT IDENTIFICATION

Name: High Resolution Printing Black Print Cartridge
P/N: 12A1970 **Additional P/N:** 12A1975, 12A1430, 15M1300
Family: Contains water soluble inks
Product Use: Lexmark Color Jetprinters 3200, 5000, 5700, 7000, 7200, 7200V, Optra Color 40 and 45, Z11, Z31, Z42, Z51, Z52, and Z82

SECTION 2 - GENERAL COMPOSITION OF INKS CONTAINED IN CARTRIDGE

COMPONENT	PERCENT (WT.)	CAS#	OSHA PEL	ACGIH TLV
Carbon Black	1-6	1333-86-4	3.5 mg/kg(1)	3.5 mg/kg(1)
Water Soluble Organic Solvents	5-10	(2)	(3)	(3)
Water Soluble Organic Solvent	4-7	(2)(4)	(3)	(3)
Water Soluble Organic Solvent	3-7	(2)	(3)	(3)
Water	>60	7732-18-5	(3)	(3)

- Notes:** (1) Total dust, measured as carbon black.
(2) Trade secret or patented molecule.
(3) Specific workplace limits have not been established.
(4) New Jersey Trade Secret Registration Number 80100451-5014.

SECTION 3 - HAZARDS IDENTIFICATION

The following information is based on data obtained from testing of the ink and 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:

Inhalation:	<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.
Skin Contact:	<u>Short Term Exposure</u> -	The ink may be slightly irritating to skin. Exposure not probable with intended use.
	<u>Long Term Exposure</u> -	No adverse chronic effects known. Exposure not probable with intended use.
Eye Contact:	<u>Short Term Exposure</u> -	Ink may be slightly irritating to the eye. Exposure not probable with intended use.
	<u>Long Term Exposure</u> -	No adverse chronic effects known. Exposure is not probable with intended use.
Ingestion:	<u>Short Term Exposure</u> -	Ink has low oral toxicity. Exposure not Probable with intended use.
	<u>Long Term Exposure</u> -	Chronic toxicological testing of the ink formulation has not been completed. Based on component characteristics, liver, kidney, and CNS effects may be 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:** >300°C**Autoignition:** Will not occur**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 with 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



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Pressurized: No
pH: Not applicable
Evaporation Rate: Not applicable
% Volatility: Not applicable

Boiling Point: Not applicable
Specific Gravity (H₂O = 1): Not applicable
Water Solubility: Ink is water soluble.

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: Ink not acutely toxic.
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 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 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.

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.