



# Safety Data Sheet

Lexmark Black Ink Cartridge PN: 16

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Identification of the substance or mixture

Description of the product type : Part number :

Lexmark Black Ink Cartridge	16	10N0016
Lexmark Black Ink Cartridge	17	10N0217

For actual printer/cartridge compatibility please reference [www.lexmark.com](http://www.lexmark.com)

Product type : Liquid.  
Application : Inkjet Cartridge.

<b>Supplier/Manufacturer</b>	: Lexmark International, Inc. 740 West New Circle Road Lexington, Ky 40550	<b>Only representative</b>	: Environ Sterling House The Bourse, Boar Leeds, LS1 5EQ, United Kingdom
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<b>e-mail address of person responsible for this SDS</b>	: <a href="mailto:caldwell@lexmark.com">caldwell@lexmark.com</a>	<b>e-mail address of person responsible for this SDS</b>	: <a href="mailto:sbullock@uk.envirocorp.com">sbullock@uk.envirocorp.com</a>
<b>Emergency telephone number (24/7) [United States]</b>	Informations :1-859-232-3000 Emergency :1-859-232-3333	<b>Emergency telephone number (with hours of operation)</b>	: +44 (0) 113 245 7552

## 2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Not classified. (Article containing preparation)

See section 11 for more detailed information on health effects and symptoms.

See Section 12 for environmental precautions.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/mixture** : Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. FIRST AID MEASURES

<b>Inhalation</b>	: If symptoms, such as shortness of breath or persistent coughing are experienced, remove source of contamination and move individual to fresh air. If symptoms persist, seek medical attention.
<b>Skin contact</b>	: Wash with soap and water. Should irritation occur, seek medical attention.
<b>Eye contact</b>	: Do not rub eyes. Flush immediately with plenty of water. Remove contact lenses and continue flushing for at least 15 minutes. If irritation develops and persists, seek medical attention.
<b>Ingestion</b>	: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
<b>Protection of first-aiders</b>	: No action shall be taken involving any personal risk or without suitable training.
<b>Notes to physician</b>	: No specific antidote.
<b>Specific treatments</b>	: None known.

See section 11 for more detailed information on health effects and symptoms.

## 5. FIRE-FIGHTING MEASURES

### Extinguishing media

**Suitable** : Carbon dioxide, water spray or fog, dry chemical or foam.

**Not suitable** : None known.

**Special exposure hazards** : None known.

**Hazardous thermal decomposition products** : Carbon monoxide, carbon dioxide, unidentified organics.

**Special protective equipment for fire-fighters** : Fire fighters should wear full protective clothing, including self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** : Wear latex, vinyl, or nitrile gloves to prevent staining of skin.

**Environmental precautions** : Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Methods for cleaning up** : Small spill : Absorb small spills with cloth or paper towels or other suitable material. Product waste and emptied containers should be disposed of in accordance with local waste regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 7. HANDLING AND STORAGE

**Handling** : Keep from freezing. To avoid damage to cartridge and accidental contact with ink, keep out of reach of children.

**Storage** : Store in a cool, dry place. Store away from oxidizing material.

### Packaging materials

**Recommended** : Use original container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limit values

Ingredient name	Occupational exposure limits
No exposure limit value known.	

### Exposure controls

**Occupational exposure controls** : Not required. Use only in well-ventilated areas.

**Respiratory protection** : None required for intended use in printer.

**Hand protection** : None required for intended use in printer.

**Eye protection** : None required for intended use in printer.

**Skin protection** : None required for intended use in printer.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General information

#### Appearance

- Physical state : Liquid.
- Colour : Black.
- Odour : Faint odour.
- Odour threshold : Not available.

### Important health, safety and environmental information

- pH : 7 to 8.5
- Flash point : Solid, not applicable
- Explosive properties : None known.
- Explosion limits : Not determined.
- Oxidising properties : Not applicable.
- Auto-ignition temperature : Not applicable.

## 10. STABILITY AND REACTIVITY

- Stability : The product is stable.
- Conditions to avoid : None known.
- Materials to avoid : Reactive or incompatible with the following materials: oxidizing materials.
- Hazardous decomposition products : Carbon monoxide, carbon dioxide, unidentified organics.

## 11. TOXICOLOGICAL INFORMATION

### Potential acute health effects

- Inhalation : Low acute inhalation toxicity. As with exposure to high concentrations of any dust, minimal irritation of the respiratory tract may occur. Pure carbon black, a minor component of this product, 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. Toner is not listed by IARC, NTP, or OSHA.
- Ingestion : Low acute oral toxicity. Exposure not probable with intended use.
- Skin contact : No known significant effects or critical hazards.
- Eye contact : No known significant effects or critical hazards.

### Potential chronic health effects

- Skin : Not available.
- Eyes : Not available.
- Respiratory : Not available.
- Chronic effects : No known significant effects or critical hazards.
- Carcinogenicity : **CARCINOGENIC EFFECTS:** Classified + (Proven.) by NIOSH [Carbon Black]. Classified 2B (Possible for humans.) by IARC [Carbon Black]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Carbon Black].  
**MUTAGENIC EFFECTS:** Not available.  
**TERATOGENIC EFFECTS:** Not available.
- Mutagenicity : No known significant effects or critical hazards.
- Teratogenicity : No known significant effects or critical hazards.
- Developmental effects : No known significant effects or critical hazards.
- Fertility effects : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Inhalation : No specific data.
- Ingestion : No specific data.
- Skin : No specific data.

## 11. TOXICOLOGICAL INFORMATION

**Eyes** : No specific data.

## 12. ECOLOGICAL INFORMATION

**Environmental effects** : Practically non-toxic to aquatic organisms.

Product/ingredient name	Species	Exposure	Result
Lexmark Black Ink PN: 18L0068	Daphnia	24 hours	Acute EC50 >1000 mg/L
	Daphnia	48 hours	Acute EC50 >1000 mg/L

**Conclusion/Summary** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## 13. DISPOSAL CONSIDERATIONS

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

## 14. TRANSPORT INFORMATION

**International transport regulations**

**ADR/RID / IMDG / IATA Classes** : Not regulated.

## 15. REGULATORY INFORMATION

**EU regulations**

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

**Risk phrases** : This product is not classified according to EU legislation.

**Product use** : Consumer applications, Industrial applications.

**Europe inventory** : 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.

**International regulations lists**

**TSCA (USA) (United States)** : All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.

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

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

**Philippines inventory (PICCS)** : All ingredients are listed on the Philippines Inventory (PICCS) or are exempt.

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

**China inventory (IECSC)** : All ingredients are listed on the Chinese inventory (IECSC) or are exempt.

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

## 16. OTHER INFORMATION

**History**

**Date of issue** : 1/15/2010

**Version** : 1

**16. OTHER INFORMATION****Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



## Color Print Cartridge

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 and Company Identification

<b>Product Name:</b>	Color Print Cartridge	<b>Manufacturer:</b>	Lexmark International, Inc.
<b>Product ID:</b>	10N0026		740 West New Circle Road
<b>Chemical Family:</b>	Inkjet Cartridge		Lexington, KY 40550
<b>Application:</b>	Inkjet Printer	<b>Information:</b>	1-859-232-3000
<b>Prepared By:</b>	Product Environmental Programs	<b>Emergency:</b>	1-859-232-3333

### Section 2 - Composition / Information on Ingredients

Ingredients	Percent (wt.)	CAS No.	OSHA PELs	ACGIH TLV
Water Soluble Dyes	2.0-3.5	Trade Secret	None	None
NJTSRN 80100451-5005 Magenta				
NJTSRN 80100451-5007 Cyan				
NJTSRN 80100451-5012 Yellow				
Water Soluble Organic Solvents	12-25	Trade Secret	None	None
Water Soluble Organic Solvent	4-8	Trade Secret	None	None
NJTSRN 80100451-5013				
Hydroxylated Alkane	3-7	Trade Secret	None	None
NJTSRN 80100451-5004				
Nitrates	1-3	Trade Secret	None	None
Water	>68	7732-18-5	None	None

### Section 3 - Hazards Identification

The following information is based on testing of the product as a whole and/or characteristics of components.

<b>Hazard Information:</b>	Primary Routes of Exposure: Ingestion, skin contact.
<b>Inhalation:</b>	If ink mist is inhaled, respiratory tract irritation may occur. Exposure not probable with intended use. No adverse chronic effects known at intended level of use.
<b>Skin Contact:</b>	Not an irritant. Exposure not probable with intended use. Not a dermal sensitizer.
<b>Eye Contact:</b>	May be slightly irritating. Exposure not probable with intended use.
<b>Ingestion:</b>	Low acute oral toxicity. Exposure not probable with intended use.

### Section 4 - First Aid Measures

<b>Inhalation:</b>	If symptoms, such as shortness of breath or persistent coughing are experienced, remove source of contamination and move individual to fresh air. If symptoms persist, seek medical attention.
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<b>Skin Contact:</b>	Wash with soap and water. Should irritation occur, seek medical attention.
<b>Eye Contact:</b>	Flush immediately with plenty of water. Remove contact lenses and continue flushing for at least 15 minutes. If irritation develops and persists, seek medical attention.
<b>Ingestion:</b>	Immediately wash mouth out with plenty of water. Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
<b>Aggravated Conditions:</b>	None known
<b>Notes to Physician:</b>	No specific antidote.

## **Section 5 - Fire Fighting Measures**

<b>Flash Point/Range (°C):</b>	Not applicable
<b>Autoignition Temperature (°C):</b>	Not determined
<b>Flammable Limits in Air UEL:</b>	Not determined
<b>Flammable Limits in Air LEL:</b>	Not determined
<b>Extinguishing Media:</b>	Carbon dioxide, water spray or fog, dry chemical or foam
<b>Hazardous Combustion Products:</b>	Carbon monoxide, carbon dioxide, unidentified organics
<b>Special Exposure Hazards:</b>	None known
<b>Special Protective Equipment:</b>	NIOSH approved self contained breathing apparatus may be required if a large number of cartridges are involved.
<b>NFPA Rating:</b>	Health: 1 Flammability: 0 Reactivity: 0
<b>HMIS Classification:</b>	Health: 1 Flammability: 0 Reactivity: 0

## **Section 6 - Accidental Release Measures**

<b>Personal Precautionary Measures:</b>	None required for intended use in printer.
<b>Environmental Precautionary:</b>	Unless specifically permitted for disposal, keep waste out of sewers, watersheds, and waterways.
<b>Procedure for Cleaning/Absorption:</b>	Absorb small spills with cloth or paper towels or other suitable material. Place in container for disposal. For large spills, dike around spill with absorbent material. Wash spill site with soap and water after material pickup is complete. Disposal is subject to federal, state, local, or provincial regulations.

## **Section 7 - Handling and Storage**

<b>Handling:</b>	To avoid damage to cartridge and accidental contact with ink <b>KEEP OUT OF REACH OF CHILDREN.</b>
<b>Storage:</b>	Store in a cool, dry place.

## **Section 8 - Exposure Controls / Personal Protection**

<b>Engineering Controls:</b>	None required.
<b>Respiratory Protection:</b>	None required for intended use in printer.
<b>Gloves:</b>	None required for intended use in printer.

**Skin Protection:** None required for intended use in printer.

**Eyes:** None required for intended use in printer.

## **Section 9 - Physical and Chemical Properties**

**Physical State:** Cartridge contains liquid ink

**Color:** Cyan, Magenta, Yellow

**Odor:** Faint

**Solubility in Water:** Fully Miscible

**Pressurized:** No

**pH:** 7.0-8.5

**Specific Gravity:** Not determined

## **Section 10 - Stability and Reactivity**

**Chemical Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** None known

**Materials to Avoid:** None known

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, unidentified organics

**Additional Guidelines:** None

## **Section 11 - Toxicological Information**

**Primary Routes of Exposure:** Ingestion, skin contact.

**Ingestion:** Low acute oral toxicity. Exposure not probable with intended use. Based on component characteristics, gastrointestinal, liver, kidney, and CNS effects are possible if large quantities of ink are ingested.

**Acute Toxicity Oral Rat LD50 (mg/kg):** >2000

**Inhalation:** Low acute inhalation toxicity.

**Aggravated Conditions:** None known

**Carcinogenicity Comment:** Neither this product nor any of its components present above 0.1% are listed by IARC, NTP, or OSHA as known carcinogens.

## **Section 12 - Ecological Information**

**Mobility:** Not determined

**Persistence:** Not determined

**Bioaccumulative:** Not determined

**Other Information:** None



## **Section 13 - Disposal Considerations**

### **Waste Disposal:**

This product is not a listed 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, under RCRA, 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. Disposal is subject to local, state and federal regulations.

## **Section 14 - Transport Information**

<b>DOT Status:</b>	Not classified as a hazardous material or substance under US DOT.		
<b>DOT Shipping Name:</b>	Not applicable	<b>DOT Reportable Quantity:</b>	Not applicable
<b>Hazard Class:</b>	Not applicable	<b>DOT Packing Group:</b>	Not applicable

## **Section 15 - Regulatory Information**

<b>TSCA (USA)</b>	All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.
<b>SARA / EPCRA (USA):</b>	None of the ingredients in this product has a final reportable quantity (RQ) under Emergency Planning and Community Right-to Know Act (EPCRA)- Section 302: Extremely Hazardous Substances (EHS) or notification requirements for EHS under Section 304.
<b>California Proposition 65:</b>	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.
<b>DSL (Canada):</b>	All ingredients are listed on the Canadian Domestic Substances List (DSL), have been registered on the Non-Domestic Substances List (NDSL), or are exempt.
<b>EINECS (Europe):</b>	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.
<b>ECL (Korea):</b>	All ingredients are listed on the Korean Existing Chemicals List (ECL), have been registered, or are exempt.
<b>WHMIS Hazard Class (Canada):</b>	Not a WHMIS controlled product.

## **Section 16 - Other Information**

**The following has been revised since the last issue of this MSDS:** No significant revisions to health and safety information.

**Additional Information:** None

Data are most current known to Lexmark at the time of preparation and are believed to be accurate. No warranty as to their accuracy or completeness is expressed or implied.

\*\*\*END OF MSDS\*\*\*