



# Material Safety Data Sheet

100/105 Black Ink Cartridge PN: 14N0820

## 1 . Product and company identification

**Supplier/Manufacturer:** Lexmark International, Inc.  
 740 West New Circle Road  
 Lexington, Ky 40550

**Description :**

**Part number :**

100 Return Program Cartridge, Black	14N0820	14N0820A	14N0820E
100A Cartridge, Black	14N0918		
100XL High Yield Return Program Cartridge, Black	14N1068	14N1068A	14N1068E
100XLA High Yield Cartridge, Black	14N1092	14N0822A	14N0822E
105XL High Yield Return Program Cartridge, Black	14N0822		
105XLA High Yield Cartridge, Black	14N0919		

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

Application : Inkjet printer

Information: 1-859-232-3000

Emergency: 1-859-232-3333

## 2 . Composition/information on ingredients

Name	%	CAS number	OSHA PEL	ACGIH TLV
Water	70-85	7732-18-5	None	None
Glycerol	5 - 10	56-81-5	5 mg/m <sup>3</sup> TWA (8 hours)	10 mg/m <sup>3</sup> TWA (8 hours)
Water Soluble Organic Solvent	1 - 5	Trade secret NJTSRN 80100451-5055	None	None
Water Soluble Organic Solvent	1 - 5	Trade secret. NJTSRN 80100451-5051	None	None
Carbon black	1 - 5	1333-86-4	3.5 mg/m <sup>3</sup> TWA (8 hours)	3.5 mg/m <sup>3</sup> TWA (8 hours)

## 3 . Hazards identification

- Hazard information** : **Route of exposure** : Dermal contact. Eye contact. Ingestion.
- Inhalation** : If ink mist is inhaled, respiratory tract irritation may occur. No known significant effects or critical hazards. Exposure not probable with intended use.
- Skin contact** : Not an irritant. Not a dermal sensitizer. No known significant effects or critical hazards.
- Eye contact** : Not an irritant. No known significant effects or critical hazards.
- Ingestion** : Low acute oral toxicity. Chronic toxicological testing of the ink formulation has not been performed.

## 4 . First aid measures

- Inhalation** : 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.
- Skin contact** : Wash with soap and water. Should irritation occur, seek medical attention.

- Eye contact** : 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.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Aggravated conditions** : None known.
- Notes to physician** : No specific antidote.

## 5 . Fire-fighting measures

- Flash point** : Solid. Ink > 200°C.
- Auto-ignition temperature** : Not applicable.
- Flammable limits** : Not determined.
- Extinguishing media** : Carbon dioxide, water spray or fog, dry chemical or foam.
- Hazardous combustion products** : Carbon monoxide, carbon dioxide, unidentified organics.
- Special exposure hazards** : None known.
- Special protective equipment for fire-fighters** : Fire fighters should wear full protective clothing, including self-contained breathing apparatus.
- NFPA Rating** : Health: 1 Flammability: 1 Reactivity: 0
- HMIS Classification** : Health: 1\* Flammability: 1 Reactivity: 0

## 6 . Accidental release measures

- Personal precautions** : Wear latex, vinyl, or nitrile gloves to prevent staining of skin.
- Environmental precautions** : Unless specifically permitted for disposal, keep waste out of sewers, watersheds, and waterways. Disposal is subject to national, state, regional, or provincial 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. Dispose material in accordance with all local, state, and federal 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.

## 8 . Exposure controls/personal protection

- Engineering measures** : Not required. Use in a well-ventilated area.
- Respiratory** : Not required under normal conditions of use.
- Gloves** : Not required under normal conditions of use.
- Skin protection** : Not required under normal conditions of use.
- Eyes** : Not required under normal conditions of use.

## 9 . Physical and chemical properties

- Physical state** : Liquid.
- Color** : Black.
- Odor** : Faint odor.
- Solubility** : Easily soluble in the following materials: cold water, hot water, Methanol and acetone.
- Melting/freezing point** : 0°C (32°F)
- Volatility** : Not determined

## 10 . Stability and reactivity

- Stability and reactivity** : 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.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.
- Additional guidelines** : Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

## 11 . Toxicological information

- Primary routes of exposure** : Inhalation of vapors, skin contact.
- Ingestion** : Low acute oral toxicity. Exposure not probable with intended use.
- Acute toxicity oral rat LD50 (mg/kg)** : >2000
- Inhalation** : Low acute inhalation toxicity. 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. Ink is not listed by IARC, NTP, or OSHA.
- Aggravating conditions** : None known.
- Potential chronic health effects** : **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.
- Exposure limit values** : See Section 3.

## 12 . Ecological information

- Mobility** : Not available.
- Other information** : Products of degradation: carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub> etc.).  
No significant toxicity to wastewater treatment organisms. Aerobic HA-50 Bacterial Toxicity Test: EC10 and EC50 >100 mg/l.

## 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.

## 14 . Transport information

Not regulated by any transport mode.

## 15 . Regulatory information

### United States

- TSCA (USA)** : All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.
- SARA / EPCRA (USA)** : 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.
- California Prop. 65** : 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.

### International regulations lists

- EINECS (Europe)** : 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.
  - 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.
- Canada**
- WHMIS (Canada)** : Class D-2A: Material causing other toxic effects (Very toxic).
  - DSL/NDSL** : All ingredients are listed on the Canadian Domestic Substances List (DSL), have been registered on the Non-Domestic Substances List (NDSL), or are exempt.
- Mexico Classification** : Health: 1 Flammability: 1 Reactivity: 0

## 16 . Other information

- Revision comments** : No significant revisions to health and safety information.
- References** : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994.
- Date of issue** : 07/01/2009
- Version** : 1

### 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.