



Material Safety Data Sheet

Black Print Cartridge, Black PN: 701K

1. Product and company identification

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

Description :

Part number :

	Supply number	Part number
Print Cartridge, Black	701K	70C10K0
Print Cartridge, Black	702K	70C20K0
Print Cartridge, Black	708K	70C80K0
Print Cartridge, Black	700H1	70C0H10
Print Cartridge, Black	701HK	70C1HK0
Print Cartridge, Black	702HK	70C2HK0
Print Cartridge, Black	708HK	70C8HK0
Print Cartridge, Black	700X1	70C0X10
Print Cartridge, Black	701XK	70C1XK0
Print Cartridge, Black	702XK	70C2XK0
Print Cartridge, Black	708XK	70C8XK0
Print Cartridge, Black	701HKE	70C1HKE
Print Cartridge, Black	702HKE	70C2HKE
Print Cartridge, Black	708HKE	70C8HKE
Print Cartridge, Black	701XKE	70C1XKE
Print Cartridge, Black	702XKE	70C2XKE
Print Cartridge, Black	708XKE	70C8XKE
Developer Unit, Black	700D1	70C0D10
Imaging Unit, Black	700Z1	70C0Z10

For actual printer/cartridge compatibility please reference www.lexmark.com

Application : Laser Printer CS310, CS410, CS510

Information: 1-859-232-3000

Emergency: 1-859-232-3333

2. Composition/information on ingredients

Name	%	CAS number	OSHA PEL	ACGIH TLV
Styrene Acrylic Polymer	75- 85	Trade secret NJTSRN 80100451-5038	None	None
Wax	5 - 10	Trade secret NJTSRN 80100451-5039	None	None
Amorphous Silica	1 - 5	Trade secret NJTSRN 80100451-5015	None	None
Charge Control Agent	1 - 5	Trade secret NJTSRN 80100451-5040	None	None
Titanium dioxide	0.1 - 1	13463-67-7	OSHA PEL (United States, 6/2010). TWA: 15 mg/m ³ 8 hour(s). Form: Total dust	ACGIH TLV (United States, 2/2010). TWA: 10 mg/m ³ 8 hour(s).
Carbon black	5-10	1333-86-4	OSHA PEL (United States, 6/2010). TWA: 3.5 mg/m ³ 8 hour(s). OSHA PEL 1989 (United States, 3/1989). TWA: 3.5 mg/m ³ 8 hour(s).	ACGIH TLV (United States, 2/2010). TWA: 3 mg/m ³ 8 hour(s). Form: Inhalable fraction

3 . Hazards identification

Hazard information	: Primary Routes of Exposure: Dust inhalation, skin contact.
Inhalation	: Low acute inhalation toxicity. As with exposure to high concentrations of any dust, minimal irritation of the respiratory tract may occur. Exposure not probable with intended use. Chronic: No adverse changes in the lungs result from this accumulation. Exposure not probable with intended use.
Skin contact	: Not an irritant. Low dermal toxicity. Not a dermal sensitizer.
Eye contact	: Toner may act as a mechanical irritant.
Ingestion	: Low acute oral toxicity.

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	: Exposure to high airborne dust concentrations, including toner, may aggravate existing respiratory conditions.
Notes to physician	: No specific antidote.

5 . Fire-fighting measures

Flash point	: Solid, not applicable.
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	: Like many finely divided materials, toner dust, in high concentrations can form an explosive mixture in air which, if ignited, could result in a dust explosion.
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	: None required for intended use in printer.
Environmental precautions	: Disposal is subject to national, state, regional, or provincial regulations.
Methods for cleaning up	: If a dust cloud is possible due to a spill, remove all sources of ignition such as open sparks, flames, or static discharge to prevent the ignition of the dust. Minimize dust generation during clean up. Sweep up spill with non-metallic broom and dustpan. Contain for disposal. Oil permeated sweeping compound may be useful in cleaning up spills.

7 . Handling and storage

- Handling** : Avoid generating dust. To avoid damage to cartridge and accidental contact with toner, 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** : None required for intended use in printer.
- Gloves** : None required for intended use in printer.
- Skin protection** : None required for intended use in printer.
- Eyes** : None required for intended use in printer.

9 . Physical and chemical properties

- Physical state** : Solid (Finely divided solid.)
- Color** : Black.
- Odor** : Faint odor (Plastic.)
- Vapor density** : Not applicable.
- Solubility** : Insoluble in water.
- Melting/freezing point** : Not determined.
- Specific gravity** : Not determined.
- Volatility** : Not determined.
- Evaporation rate** : Not applicable.

10 . Stability and reactivity

- Stability and reactivity** : The product is stable.
- Conditions to avoid** : Keep away from heat, flame, sparks and other ignition sources.
- Materials to avoid** : Strong oxidizing materials.
- Hazardous decomposition products** : Carbon monoxide, carbon dioxide, unidentified organics.
- Hazardous polymerization** : Will not occur.
- Additional guidelines** : None known.

11 . Toxicological information

- Primary routes of exposure** : Inhalation of dust, skin contact.
- Ingestion** : Low acute oral toxicity. Exposure not probable with intended use.
- Acute toxicity oral rat LD50 (mg/kg)** :

Product/ingredient name	Species	Dose	Result
Black Print Cartridge, Black PN: 701K	Rat	>5000 mg/kg	LD50 Oral -
Carbon black	Rat	>15400 mg/kg	LD50 Oral -

- 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 and titanium dioxide, minor components 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. Toner is not listed by IARC, NTP, or OSHA.
- Aggravating conditions** : Exposure to high airborne dust concentrations, including toner, may aggravate existing respiratory conditions.

- Potential chronic health effects** : **CARCINOGENIC EFFECTS:** Classified + (Proven.) by NIOSH [Carbon black]. Classified A3 (Proven for animals.) by ACGIH, 2B (Possible for humans.) by IARC [Carbon black]. Classified + (Proven.) by NIOSH [titanium dioxide]. Classified 2B (Possible for humans.) by IARC [titanium dioxide].
MUTAGENIC EFFECTS: Toner is negative (nonmutagenic) in the Ames assay.
TERATOGENIC EFFECTS: Not available.
- Exposure limit values** : Toner dust is a particulate not otherwise classified (PNOC) or regulated (PNOR).

12 . Ecological information

- Mobility** : Not determined.
Bioaccumulative potential : Not determined.
Persistence/degradability : Not determined.
Other information : None known.

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.
- REACH Status** : EU (REACH): All components of the toner formulation are registered, pre-registered or exempt under REACH. Pre-registered chemicals will be registered between 2011 and 2018.
- 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)** : Not controlled under WHMIS (Canada).
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.
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Version : 1

Notice to reader

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