



# Material Safety Data Sheet

Cyan Print Cartridge PN: C746A1CG

## 1. Product and company identification

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

**Description :**

**Part number :**

Toner Cartridge, Cyan	C746A1CG	X746A1CG	24B5579
Toner Cartridge, Cyan	C746A2CG	X746A2CG	24B5701
Toner Cartridge, Cyan	C746A3CG	X746A3CG	
Toner Cartridge, Cyan	C746A4CG	X748A4CG	
Toner Cartridge, Cyan	C748H1CG	X748H1CG	
Toner Cartridge, Cyan	C748H2CG	X748H2CG	
Toner Cartridge, Cyan	C748H3CG	X748H3CG	
Toner Cartridge, Cyan	C748H4CG	X748H4CG	

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

Application : Laser Printer C746, X746, C748, X748, CS748, XS748

Information: 1-859-232-3000

Emergency: 1-859-232-3333

## 2. Composition/information on ingredients

Name	%	CAS number	OSHA PEL	ACGIH TLV
Styrene-alkyl acrylate copolymer EP1	80 - 90	292629-36-8	None	None
Ethylene, polymers, pyrolyzate	5 - 15	9002-88-4	<b>OSHA PEL (United States, 2002).</b> <b>Notes:</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Respirable dust	None
Pigment	5 - 10	Trade secret	TWA: 15 mg/m <sup>3</sup> 8 hour(s). Form: Total dust None	None

## 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. [Toner Cartridge]
- Color** : Cyan
- 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
Toner.	Rat	>5000 mg/l	LC50 Inhalation Particulate.
	Rat	>5000 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. 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 None. by NIOSH [Ethylene, polymers, pyrolyzate]. Classified 3 (Not classifiable for humans.) by IARC [Ethylene, polymers, pyrolyzate].  
**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.
- 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.
- Date of issue** : 4/17/2012.
- Date of previous issue** : 11/15/2011
- Version** : 2

### 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.



# Material Safety Data Sheet

Magenta Print Cartridge PN: C746A1MG

## 1. Product and company identification

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

**Description :**

**Part number :**

Toner Cartridge, Magenta	C746A1MG	X746A1MG	24B5580
Toner Cartridge, Magenta	C746A2MG	X746A2MG	24B5702
Toner Cartridge, Magenta	C746A3MG	X746A3MG	
Toner Cartridge, Magenta	C746A4MG	X746A4MG	
Toner Cartridge, Magenta	C748H1MG	X748H1MG	
Toner Cartridge, Magenta	C748H2MG	X748H2MG	
Toner Cartridge, Magenta	C748H3MG	X748H3MG	
Toner Cartridge, Magenta	C748H4MG	X748H4MG	

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

Application : Laser Printer C746, X746, C748, X748, CS748, XS748

Information: 1-859-232-3000

Emergency: 1-859-232-3333

## 2. Composition/information on ingredients

Name	%	CAS number	OSHA PEL	ACGIH TLV
Styrene-alkyl acrylate copolymer EP1	80 - 90	292629-36-8	None	None
Ethylene, polymers, pyrolyzate	5 - 15	9002-88-4	<b>OSHA PEL (United States, 2002).</b> <b>Notes:</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Respirable dust	None
Pigment	5 - 10	Trade secret	TWA: 15 mg/m <sup>3</sup> 8 hour(s). Form: Total dust None	None

## 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
- HMS 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. [Toner Cartridge]
- Color** : Magenta
- 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
Toner.	Rat	>5000 mg/l	LC50 Inhalation Particulate.
	Rat	>5000 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. 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 None. by NIOSH [Ethylene, polymers, pyrolyzate]. Classified 3 (Not classifiable for humans.) by IARC [Ethylene, polymers, pyrolyzate].  
**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.
- 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.
- Date of issue** : 4/17/2012.
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- Version** : 2

### 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.





# Material Safety Data Sheet

Yellow Print Cartridge PN: C746A1YG

## 1. Product and company identification

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

**Description :**

**Part number :**

Toner Cartridge, Yellow	C746A1YG	X746A1YG	24B5581
Toner Cartridge, Yellow	C746A2YG	X746A2YG	24B5703
Toner Cartridge, Yellow	C746A3YG	X746A3YG	
Toner Cartridge, Yellow	C746A4YG	X748A4YG	
Toner Cartridge, Yellow	C748H1YG	X748H1YG	
Toner Cartridge, Yellow	C748H2YG	X748H2YG	
Toner Cartridge, Yellow	C748H3YG	X748H3YG	
Toner Cartridge, Yellow	C748H4YG	X748H4YG	

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

Application : Laser Printer C746, X746, C748, X748, CS748, XS748

Information: 1-859-232-3000

Emergency: 1-859-232-3333

## 2. Composition/information on ingredients

Name	%	CAS number	OSHA PEL	ACGIH TLV
Styrene-alkyl acrylate copolymer EP1	80 - 90	292629-36-8	None	None
Ethylene, polymers, pyrolyzate	5 - 15	9002-88-4	<b>OSHA PEL (United States, 2002).</b> <b>Notes:</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Respirable dust	None
Pigment	5 - 10	Trade secret	TWA: 15 mg/m <sup>3</sup> 8 hour(s). Form: Total dust None	None

## 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
- HMS 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. [Toner Cartridge]
- Color** : Yellow.
- 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
Yellow Print Cartridge PN: C746A1YG	Rat	>5000 mg/l	LC50 Inhalation Vapor 4 hours
	Rat	>5000 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. 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 None. by NIOSH [Ethylene, polymers, pyrolyzate]. Classified 3 (Not classifiable for humans.) by IARC [Ethylene, polymers, pyrolyzate].  
**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.
- 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.
- Date of issue** : 4/17/2012.
- Date of previous issue** : 11/15/2011
- Version** : 2

### 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.



# Material Safety Data Sheet

Black Print Cartridge PN: C746H1KG

## 1. Product and company identification

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

**Description :**

**Part number :**

Toner Cartridge, Black	C746H1KG	24B5578
Toner Cartridge, Black	C746H2KG	24B5700
Toner Cartridge, Black	C746H3KG	
Toner Cartridge, Black	C746H4KG	
Toner Cartridge, Black	X746H1KG	
Toner Cartridge, Black	X746H2KG	
Toner Cartridge, Black	X746H3KG	
Toner Cartridge, Black	X746H4KG	

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

Application : Laser Printer C746, X746, C748, X748, CS748, XS748

Information: 1-859-232-3000

Emergency: 1-859-232-3333

## 2. Composition/information on ingredients

Name	%	CAS number	OSHA PEL	ACGIH TLV
Styrene-alkyl acrylate copolymer EP1	80 - 90	292629-36-8	None	None
Ethylene, polymers, pyrolyzate	5 - 15	9002-88-4	<b>OSHA PEL (United States, 2002).</b> <b>Notes:</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Respirable dust TWA: 15 mg/m <sup>3</sup> 8 hour(s). Form: Total dust	None
Carbon black	5 - 10	1333-86-4	<b>OSHA PEL (United States, 6/2010).</b> TWA: 3.5 mg/m <sup>3</sup> 8 hour(s). <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 3.5 mg/m <sup>3</sup> 8 hour(s).	<b>ACGIH TLV (United States, 2/2010).</b> TWA: 3 mg/m <sup>3</sup> 8 hour(s). Form: Inhalable fraction

## 3. Hazards identification

**Hazard information**

**Inhalation**

- : Primary Routes of Exposure: Dust inhalation, skin contact.
- : 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

<b>Physical state</b>	: Solid. [Toner Cartridge]
<b>Color</b>	: Black.
<b>Odor</b>	: Faint odor (Plastic.)
<b>Vapor density</b>	: Not applicable.
<b>Solubility</b>	: Insoluble in water.
<b>Melting/freezing point</b>	: Not determined.
<b>Specific gravity</b>	: Not determined.
<b>Volatility</b>	: Not determined.
<b>Evaporation rate</b>	: Not applicable.

## 10 . Stability and reactivity

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

## 11 . Toxicological information

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

<b>Product/ingredient name</b>	<b>Species</b>	<b>Dose</b>	<b>Result</b>	<b>Exposure</b>
Toner.	Rat	>5000 mg/l	LC50 Inhalation Particulate.	4 hours
	Rat	>5000 mg/kg	LD50 Oral	-
Carbon black	Rat	>15400 mg/kg	LD50 Oral	-

<b>Inhalation</b>	: 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. Toner is not listed by IARC, NTP, or OSHA.
<b>Aggravating conditions</b>	: Exposure to high airborne dust concentrations, including toner, may aggravate existing respiratory conditions.
<b>Potential chronic health effects</b>	: <b>CARCINOGENIC EFFECTS:</b> Classified None. by NIOSH [Ethylene, polymers, pyrolyzate]. Classified 3 (Not classifiable for humans.) by IARC [Ethylene, polymers, pyrolyzate]. Classified + (Proven.) by NIOSH [Carbon black]. Classified A3 (Proven for animals.) by ACGIH, 2B (Possible for humans.) by IARC [Carbon black]. <b>MUTAGENIC EFFECTS:</b> Toner is negative (nonmutagenic) in the Ames assay. <b>TERATOGENIC EFFECTS:</b> Not available.
<b>Exposure limit values</b>	: 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.
- 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).
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