

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

### Identification of the substance or mixture

Description of the product type : Part number :

Return Program Toner Cartridge	X203A11G
Toner Cartridge	X203A21G
Photoconductor Kit	X203H22G

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

Product type : Solid.

Application : Laser Printer X203, X204

Supplier/Manufacturer : Lexmark International, Inc. 740 West New Circle Road Lexington, Ky 40550	Only representative : Environ Sterling House The Bourse, Boar Leeds, L5I 5EQ, United Kingdom
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e-mail address of person responsible for this SDS : [caldwell@lexmark.com](mailto:caldwell@lexmark.com)

e-mail address of person responsible for this SDS : [sbullock@uk.environcorp.com](mailto:sbullock@uk.environcorp.com)

Emergency telephone number (24/7) [United States] : Informations :1-859-232-3000  
Emergency :1-859-232-3333

Emergency telephone number (with hours of operation) : +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

Ingredient name	CAS number	%	EC number	Classification
Iron oxide	1317-61-9	5-10	215-277-5	Not classified. [2]
Carbon Black	1333-86-4	5-10	215-609-9	Not classified. [2]
Bis(3,5-di-tert-butylsalicylato-O1 ,O2)zinc	42405-40-3	1-2.5	403-360-0	F; R11 [1] Xn; R22 N; R50/53
Particle control agent [NJTSRN 80100451-5016] See section 16 for the full text of the R-phrases declared above See section 16 for the full text of the R-phrases declared above	-	1-5	-	Not classified. [2]

There are no additional 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.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

## 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.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician** : No specific antidote.

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** : 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.
- 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** : None required for intended use in printer.
- Environmental precautions** : Disposal should be in accordance with applicable regional, national and local laws and regulations.
- Methods for cleaning up**
- Small spill** : 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.
- Large spill** : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 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.
- Packaging materials**
- Recommended** : Use original container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name	Occupational exposure limits
Iron oxide	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b> STEL: 10 mg/m <sup>3</sup> , (Fe) 15 minute(s). Form: Fume TWA: 5 mg/m <sup>3</sup> , (Fe) 8 hour(s). Form: Fume
Carbon Black	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b> STEL: 7 mg/m <sup>3</sup> 15 minute(s). TWA: 3.5 mg/m <sup>3</sup> 8 hour(s).
Particle control agent [NJTSRN 80100451-5016]	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: inhalable dust TWA: 4 mg/m <sup>3</sup> 8 hour(s). Form: respirable dust

### Exposure controls

**Exposure limit values** : Toner dust is a particulate not otherwise classified (PNOC) or regulated (PNOR).

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

**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** : Solid. [Toner Cartridge]

**Colour** : Black.

**Odour** : Faint odour. (Plastic.)

**Odour threshold** : Not available.

### Important health, safety and environmental information

**Melting point** : Not determined.

**Flash point** : Solid, not applicable

**Explosion limits** : Not determined.

**Relative density** : Not determined.

**Auto-ignition temperature** : Not applicable.

## 10. STABILITY AND REACTIVITY

- Stability** : The product is stable.
- Conditions to avoid** : Keep away from heat, flame, sparks and other ignition sources.
- Materials to avoid** : Strong oxidising 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.

### Acute toxicity

Product/ingredient name	Species	Dose	Result	Exposure
Carbon Black	Rabbit	>3 g/kg	LD50 Dermal	-
	Rat	>15400 mg/kg	LD50 Oral	-
Black Print Cartridge PN: X203A11G	Rat	>5000 mg/kg	LD50 Oral	-

### Potential chronic health effects

- Chronic effects** : No known significant effects or critical hazards.
- Carcinogenicity** : Classified + (Proven.) by NIOSH [Carbon black]. Classified 2B (Possible for humans.) by IARC [Carbon black].
- Mutagenicity** : Toner is negative (nonmutagenic) in the Ames assay.
- 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.
- Eyes** : No specific data.

- Other adverse effects** : Exposure to high airborne dust concentrations, including toner, may aggravate existing respiratory conditions.

## 12. ECOLOGICAL INFORMATION

- Environmental effects** : Practically non-toxic to aquatic organisms.
- Conclusion/Summary** : The Annex I classification of the preparation (N;R50/53) due to the presence of the zinc compound is superseded by Daphnia 48-Hour Static Acute Toxicity Test results from a study using an essentially similar toner formulation with higher levels of the zinc compound. 48-Hour EL50, No Mortality/Immobility Level, and No Observable Effect Level are all 1000 mg/l.
- 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.

### Other EU regulations

**Additional warning phrases** : Safety data sheet available for professional user on request.

### 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

**Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)** : R11- Highly flammable.  
R22- Harmful if swallowed.  
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK)** : F - Highly flammable  
Xn - Harmful  
N - Dangerous for the environment

### 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.