

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 03/14/2018

Reviewed on 03/14/2018

**1 Identification of the Substance/Mixture and of the Company/Undertaking**

- **Product identifier**
- **Trade name:** IP Compliant Cartridge for Lexmark® MS/MX310 (5K)
- **Article number:** LCMSMX310-5K
- **Application of the substance / the mixture** Printing inks
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Static Control Components Inc.  
P.O. Box 152  
Sanford, North Carolina, 27331  
info@scc-inc.com
- **Information department:** Product Safety Department
- **Emergency telephone number:**  
During Normal Operating Hours: 919-774-3808  
Emergency Telephone Number: 1-919-770-7984 or 1-919-770-6019

**2 Hazards Identification**

- **Classification of the substance or mixture**  
Combustible Dust May form combustible dust concentrations in air.
- 
- **Label elements**
  - **GHS label elements**  
None required  
The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms** None required
  - **Signal word** Warning
  - **Hazard statements**  
May form combustible dust concentrations in air.
  - **Classification system:**
  - **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**
- |            |   |                |
|------------|---|----------------|
| HEALTH     | 1 | Health = 1     |
| FIRE       | 1 | Fire = 1       |
| REACTIVITY | 0 | Reactivity = 0 |

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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### 3 Composition/Information on Ingredients

- **Chemical characterization:** Mixtures
- **Description:** Resin mixture

- **Dangerous components:**

1333-86-4	Carbon black (bound)	2.5-10%
13463-67-7	titanium dioxide (bound)	≤ 2.5%

- **Non-hazardous components**

Mixture		50-100%
Charge Control Agent		≤ 2.5%

### 4 First Aid Measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** No Information Available
- **Special hazards arising from the substance or mixture**  
Like most finely divided organic powders, toner dust may form an explosive mixture in air.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Vacuum or sweep the material into a sealed container. If a vacuum is used it must be dust explosion-proof. Dispose of in compliance with national, state, regional or provincial regulations.

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- **Reference to other sections**
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling**
- No special measures required.
- Store in cool, dry place in tightly closed receptacles.
- Keep away from heat and direct sunlight.
- No special precautions are necessary if used correctly.
- Use only in well ventilated areas.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
- Store in a cool location.
- Store only in the original receptacle.
- **Information about storage in one common storage facility:**
- Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.
- **Further information about storage conditions:**
- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.
- Protect from humidity and water.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

#### 1333-86-4 Carbon black (bound)

PEL	Long-term value: 3.5 mg/m <sup>3</sup>
REL	Long-term value: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m <sup>3</sup> *inhalable fraction

#### 13463-67-7 titanium dioxide (bound)

PEL	Long-term value: 15* mg/m <sup>3</sup> *total dust
REL	See Pocket Guide App. A
TLV	Long-term value: 10 mg/m <sup>3</sup> withdrawn from NIC

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**· Additional Occupational Exposure Limit Values for possible hazards during processing:**

 USA OSHA (TWA/PEL): 15 mg/m<sup>3</sup> (Total Dust), 5 mg/m<sup>3</sup> (Respirable Fraction)

 ACGIH (TWA/TLV): 10 mg/m<sup>3</sup> (Inhalable Particulate), 3 mg/m<sup>3</sup> (Respirable Particulate)

 Amorphous Silica: USA OSHA (TWA/PEL): 20mppcf 80 mg/m<sup>3</sup>, ACGIH (TWA/TLV): 10 mg/m<sup>3</sup>

 TRGS 900 (Luftgrenzwert): 10 mg/m<sup>3</sup> (Einatembare partikel)), 3 mg/m<sup>3</sup> (Alveolengängige fraktion)

 UK WEL: 10 mg/m<sup>3</sup> (Respirable Dust) 5 mg/m<sup>3</sup> (Inhalible Dust)

**· Additional information:** The lists that were valid during the creation were used as basis.

**· Exposure controls**
**· Personal protective equipment:**
**· General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not inhale dust / smoke / mist.

**· Protection of hands:**

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye protection:** Safety glasses

## 9 Physical and Chemical Properties

**· Information on basic physical and chemical properties**
**· General Information**
**· Appearance:**
**Form:** Solid

**Color:** Black

**· Odor:** Light

**· Odor threshold:** Not determined.

**· pH-value:** Not applicable.

**· Change in condition**
**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

**· Flash point:** Not applicable.

**· Flammability (solid, gaseous):** Not determined.

**· Ignition temperature:**
**Decomposition temperature:** Not determined.

**· Auto igniting:** Product is not selfigniting.

**· Danger of explosion:** Product does not present an explosion hazard in its original state.

**· Explosion limits:**
**Lower:** Not determined.

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<b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not applicable.
· <b>Density at 20 °C (68 °F):</b>	1.3 g/cm <sup>3</sup> (10.849 lbs/gal) SG: 1.3-1.8
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>VOC content:</b>	0.0 g/l / 0.00 lb/gl
<b>Solids content:</b>	100.0 %
· <b>Other information</b>	No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity** Non reactive.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No toxic irritating effect, according to Directive 67/548/EEC or Directive 199/45/EC.
- **on the eye:** No toxic irritating effect, according to Directive 67/548/EEC or Directive 199/45/EC.
- **Sensitization:** No toxic sensitizing effects known, according to EU Directive 67/548/EEC or Directive 199/45/EC.
- **Other information (about experimental toxicology):**  
Mutagenicity : Ames test Negative (According to the test result of similar composition.)
- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

1333-86-4	Carbon black (bound)	2B
13463-67-7	titanium dioxide (bound)	2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

### 13 Disposal Considerations

· **Waste treatment methods**

· **Recommendation:** Smaller quantities can be disposed of with household waste.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport Information

· **UN-Number**

Not a regulated material under the United States DOT, IMDG, ADR, RID, or ICAO/IATA.

· **DOT, ADR, IMDG, IATA**

Void

· **UN proper shipping name**

Not a regulated material under the United States DOT, IMDG, ADR, RID, or ICAO/IATA

· **DOT, ADR, IMDG, IATA**

Void

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· <b>Transport hazard class(es)</b>	Not a regulated material under the United States DOT, IMDG, ADR, RID, or ICAO/IATA.
· <b>DOT, ADR, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>Packing group</b>	Not a regulated material under the United States DOT, IMDG, ADR, RID, or ICAO/IATA.
· <b>DOT, ADR, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

### 15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

1333-86-4 | Carbon black (bound)

13463-67-7 | titanium dioxide (bound)

· **Proposition 65**

· **Chemicals known to cause cancer:**

1333-86-4 | Carbon black (bound)

13463-67-7 | titanium dioxide (bound)

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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· TLV (Threshold Limit Value established by ACGIH)		
1333-86-4	Carbon black (bound)	A4
13463-67-7	titanium dioxide (bound)	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
1333-86-4	Carbon black (bound)	
13463-67-7	titanium dioxide (bound)	

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms** Void

· **Signal word** Warning

· **Hazard statements**

May form combustible dust concentrations in air.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 03/14/2018 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

· **\* Data compared to the previous version altered.**

No changes to the Material Safety Data Sheet, all sections are current as the date of print seen above describes.