

1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING**1.1 PRODUCT IDENTIFIER**

Product name: MICR High Yield Toner Cartridge for Lexmark MS310
Part number: N/A

1.2 IDENTIFIED USES AND USES ADVISED AGAINST

For use in: This mixture is a toner used in copiers/printers.

1.3 SUPPLIER DETAILS

Supplier: Clover Technologies Group
4200 Columbus Street.
Ottawa, IL 61350
United States
Phone number: 815-431-8100
Fax: 815-461-8583
Contact Hours: 08:00AM-05:00PM CST

1.4 EMERGENCY TELEPHONE NUMBERS

Supplier: N/A

* This document provides safety-related information about toner contained in print cartridge for use in laser printer

2. HAZARDS IDENTIFICATION**2.1 INFORMATION and CLASSIFICATION**

Overview: Classification in accordance with paragraph (d) of 29 CFR 1910.1200: Combustible Dust. GHS Label Elements Symbol(s): None needed according to classification criteria. Hazard Statement(s): May form combustible dust concentrations in air. Precautionary Statement(s): Prevention, Response, Storage - None needed according to classification criteria; Disposal - Dispose of contents/container in accordance with local/regional/national/international regulations.

2.2 LABEL ELEMENTS

Applicable Pictograms:



Danger Indications: N/A
Risk Phrases: N/A
Safety Phrases: Signal Word: Warning

2.3 OTHER HAZARDS

PBT or vPvB: N/A

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA PEL	ACGIH TLV	Other
Polyester Polyurethane Resin	TRADE SECRET	40-70			
Ferric Oxide Black	1317-61-9	15-40			
Polymer	TRADE SECRET	3-7			
Silica, Amorphous	7631-86-9	<2	20 mppcf TWA; ((80))/(% SiO2) mg/m3 TWA)		NIOSH: 6 mg/m3 TWA; 3000 mg/m3 IDLH.

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

The Data Shown is in accordance with the latest Directives.

This section provides composition information for the toner powder contained in specially designed container inside of the print cartridge.

4. FIRST-AID MEASURES

4.1 FIRST AID MEASURES

4.1.1 FIRST AID INSTRUCTIONS BY RELEVANT ROUTES OF EXPOSURE

- Inhalation: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get medical advice/attention if you feel unwell.
- Eye contact: Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Skin contact: Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (approximately 15-20 minutes). Get medical attention, if needed. Thoroughly clean and dry contaminated clothing before reuse.
- Ingestion: If a large amount is swallowed, get medical attention.

4.1.2 ADDITIONAL FIRST AID INFORMATION

- Additional first aid information: N/A
- Immediate Medical Attention Required: N/A

4.2 SYMPTOMS AND EFFECTS

- Acute Symptoms from Exposure: May cause mechanical irritation.
- Delayed Symptoms from Exposure: No information on significant adverse effects.

4.3 IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED

N/A

5. FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Recommended Extinguishing Media: Use carbon dioxide, regular dry chemical, regular foam or water. Move container from fire area if it can be done without risk.

Extinguishing Media Not to be Used: None known.

5.2 SPECIAL HAZARD

Unusual Fire/Explosion Hazards: Combustible Dust. Dust/air mixtures may ignite or explode. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Hazardous Combustion Products: carbon monoxide, carbon dioxide.

Extinguishing Media Not to be Used: N/A

5.3 ADVICE FOR FIRE FIGHTERS

Avoid inhalation of smoke. Wear protective clothing and wear self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 PRECAUTIONS FOR NON-EMERGENCY PERSONNEL

Wear suitable protective clothing and eye/face protection.

6.1.2 ADDITIONAL FIRST AID INFORMATION

N/A

6.1.3 PERSONAL PROTECTION

Wear personal protective equipment as described in Section 8.

6.2 ENVIRONMENTAL PRECAUTIONS

Regulatory Information: Keep product out of sewers and watercourses.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANUP

Spill or Leak Cleanup Procedures: Minimize dust generation and accumulation. Clean up residue with a high-efficiency particulate filter vacuum. Collect spilled material in appropriate container for disposal. Avoid release to the environment.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Recommendations for Handling: No special precautions when used as intended. Keep containers closed, avoid creating dust. Keep away from ignition sources.

Advice on General Hygiene: Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the restroom, or applying cosmetics.

7.2 CONDITIONS FOR SAFE STORAGE

Avoid high temperatures, >100°F/32°C

7.3 SPECIFIC END USES

Printing devices

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release in order to maintain airborne concentrations of the product below OSHA PELs (See Section 3). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

8.2 EXPOSURE CONTROLS

Respiratory protection:

IMPROPER USE OF RESPIRATORS IS DANGEROUS. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134 and 1910.137) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given work conditions, levels of airborne contamination, and sufficient levels of oxygen.

Eye/Face Protection:

Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Hand/Skin Protection:

For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. WARNING! Air purifying respirators do not protect worker in oxygen deficient atmospheres.

Additional Protection:

N/A

Protective Clothing and Equipment:

Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear splash-proof chemical goggles and face shield when working with liquid, unless full face piece respiratory protection is worn.

Safety Stations:

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment:

Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from your shoes and clean personal protective equipment. Never take home contaminated clothing.

Comments:

Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the restroom, or applying cosmetics.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 DETAIL INFORMATION**

Physical state:	PHYSICAL STATE: Solid. APPEARANCE: Black powder.
Color:	Black
Odor:	Slight
Odor threshold:	N/A
Boiling point:	N/A
Melting point:	N/A
Flash point:	N/A
Explosion limits:	N/A
Relative density:	N/A
Auto-ignition temperature:	N/A

9.2 OTHER INFORMATION

WATER SOLUBILITY: insoluble.

10. CHEMICAL STABILITY AND REACTIVITY**10.1 Reactivity:**

Reactivity Hazards: None

Data on Mixture Substances: None

10.2 Chemical Stability: The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.

10.3 Hazardous Polymerization: Stable under conditions of normal use.

10.4 Conditions to Avoid: Keep away from heat, flame, sparks and other ignition sources.

10.5 Incompatible Materials: Strong oxidising materials

10.6 Hazardous Decomposition: Will not occur.

11. INFORMATION ON TOXICOLOGICAL EFFECT

Mixtures:	N/A
Acute Toxicity:	Component Analysis - LD50/LC50: The components of this material have been reviewed in various sources and the following selected endpoints are published: Ferric Oxide black (1317-61-9), Oral LD50 Rat >10000 mg/kg; Silica, amorphous (7631-86-9), Oral LD50 Rat >5000 mg/kg, Dermal LD50 Rabbit >2000 mg/kg, Inhalation LC50 Rat >2.2 mg/L 1 h.
Skin Corrosion/Irritation:	Irritation/Corrosivity Data: May cause mechanical irritation.
Serious Eye Damage:	N/A
Inhalation:	N/A
Sensitization:	N/A
Mutagenicity:	N/A
Carcinogenicity:	Component Carcinogenicity: Ferric Oxide black, 1317-61-9, DFG - Category 3B (could be carcinogenic for man); Silica, amorphous, 7631-86-9, IARC - Monograph 68 [1997]; Supplement 7 [1987] (Group 3 (not classifiable)).
Reproductive Toxicity:	N/A
STOT - Single Exposure:	N/A
STOT - Multiple Exposure:	N/A
Ingestion:	N/A
Hazard Class Information:	N/A
Mixture on Market Data:	N/A
Symptoms:	N/A
Delayed/Immediate Effects:	No information on significant adverse effects.
Test Data on Mixture:	N/A
Not Meeting Classification:	N/A
Routes of Exposure:	N/A
Interactive Effects:	N/A
Absence of Specific Data:	N/A
Mixture vs Substance Data:	N/A

12. ECOLOGICAL INFORMATION

12.1 Eco toxicity:	No information available for the product. Component Analysis - Aquatic Toxicity - Silica, amorphous, 7631-86-9: Fish, LC50 96 h Brachydanio rerio 5000 mg/L [static]; Algae, EC50 72 h Pseudokirchneriella subcapitata 440 mg/L IUCLID; Invertebrate, EC50 48 h Ceriodaphnia dubia 7600 mg/L IUCLID.
12.2 Degradability:	No information available for the product.
12.3 Bioaccumulation Potential:	No information available for the product.
12.4 Mobility in Soil:	N/A
12.5 PBT & vPvB Assessment:	N/A
12.6 Other Adverse Effects:	No additional information is available.

13. DISPOSAL CONSIDERATIONS**Disposal Information:**

Dispose as a solid waste in accordance with local authority regulations.
Empty container retains product residue.

Physical/Chemical Properties that affect Treatment:

Symbol: This product is not classified as dangerous

Risk Phrases: This product is not classified according to the federal, state and local environmental regulations.

Waste Treatment Information:

Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations.

Personal Protection Required:

N/A

14. TRANSPORT INFORMATION

14.1 ID Number:	Not Regulated
14.2 Shipping Name:	Not Regulated
14.3 Hazard Class:	Not Regulated
14.4 Packing Group:	Not Regulated
14.5 Environmental Hazards:	N/A
14.6 User Precautions:	N/A
14.7 Bulk Transport:	N/A

15. REGULATORY INFORMATION

15.1 **Regulatory Information:** U.S. Federal Regulations: None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

EPA Regulatory Information: N/A

CERCLA Reportable Quantity: N/A

15.2 **Superfund Information:**

Hazard Categories:

Immediate: N/A

Delayed: N/A

Fire: N/A

Pressure: N/A

Reactivity: N/A

Section 302 - Extremely Hazardous: N/A

Section 311 - Hazardous: N/A

15.3 **State Regulations:** The following components appear on one or more of the following state hazardous substances lists: Component - Silica, amorphous, CAS - 7631-86-9, CA Yes, MA Yes, MN Yes, NJ Yes, PA Yes. Not listed under California Proposition 65.

15.4 **Other Regulatory Information:** Canadian WHMIS Ingredient Disclosure List (IDL) - Components of this material have been

checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on SDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL: Silica, amorphous, 7631-86-9, 1%. Component Analysis - Inventory: Polyester Polyurethane Resin (Proprietary) - US No, CA No, EU No, AU No, PH No, JP - ENCS Yes, JP - ISHL No, KR - KECI/KECL No, KR - TCCA No, CN Yes, NZ No, MX No; Ferric Oxide black (1317-61-9) - US Yes, CA DSL, EU EIN, AU Yes, PH Yes, JP - ENCS Yes, JP - ISHL No, KR - KECI/KECL Yes, KR - TCCA No, CN Yes, NZ Yes, MX Yes; Polymer (Proprietary) - US Yes, CA DSL, EU No, AU Yes, PH Yes, JP - ENCS Yes, JP - ISHL No, KR - KECI/KECL Yes, KR - TCCA No, CN Yes, NZ Yes, MX Yes; Silica, amorphous (7631-86-9) - US Yes, CA DSL, EU EIN, AU Yes, PH Yes, JP - ENCS Yes, JP - ISHL No, KR - KECI/KECL Yes, KR - TCCA No, CN Yes, NZ Yes, MX Yes.

16. OTHER INFORMATION

General Comments: This information is based on our current knowledge. It should not therefore be construed as guaranteeing specific properties of the products as described or their suitability for a particular application

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SAFETY DATA SHEET

Key to Abbreviations and Acronyms used in this sheet:

ACGIH = American Conference of Governmental Industrial Hygienists	NIOSH = National Institute for Occupational Safety and Health
CERCLA = Comprehensive Environmental Response Compensation and Liability Act	OSHA = Occupational Health and Safety Administration
CLP = Classification, Labeling, and Packaging	PEL = Permissible Exposure Limit
DSD = Dangerous Substances Directive	SCBA = Self Contained Breathing Apparatus
EPA = Environmental Protection Agency	STOT = Specific Target Organ Toxicity
GHS = Globally Harmonized System	TLV = Threshold Limit Value
N/A = Not Applicable	UK = United Kingdom
NFPA = National Fire Protection Association	UN = United Nations

Ref:**DISCLAIMER**

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