1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING

1.1 **PRODUCT IDENTIFIER**

Product name: High Yield Black Toner Cartridge for Lexmark CS421

Part number: LEXCS421BX

1.2 **IDENTIFIED USES AND USES ADVISED AGAINST**

For use in: Laser Printers

1.3 **SUPPLIER DETAILS**

Supplier: Clover Imaging 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: 815-431-8100

* This document provides safety-related information about ink/toner, in various forms, for use in copiers/printers etc.

2. HAZARDS IDENTIFICATION

2.1 **INFORMATION and CLASSIFICATION**

Overview: GHS classification of the mixture: Not classified. Emergency Overview: Black fine powder with little or no odor. Risk of dust-explosion if finely dispersed in air with an ignition source.

2.2 **LABEL ELEMENTS**

Applicable Pictograms:



Danger Indications: N/A

Risk Phrases: N/A

Safety Phrases: N/A

2.3 **OTHER HAZARDS**

PBT or vPvB: N/A

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA PEL	ACGIH TLV	Other
Polyester Resin	Confidential	80-95			
Carbon Black	1333-86-4	<10	TWA: 3.5mg/m3	TWA: 3.5mg/m3	
Silica	67762-90-7	1-6	TWA: 6mg/m3	TWA: 10mg/m3(Total dust) - 3mg/m3(Respirable fraction)	
Wax	Confidential	1-3			
Zinc(II) complex salt	42405-40-3	<1			
Titanium Dioxide	13463-67-7	<1	TWA: 15mg/m3(Total dust) - 5mg/m3(Respirable fraction)	TWA: 10mg/m3	

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 specified substance/mixture.

4. FIRST-AID MEASURES

4.1 **FIRST AID MEASURES**

4.1.1 **FIRST AID INSTRUCTIONS BY RELEVANT ROUTES OF EXPOSURE**

Inhalation:	Move to fresh air and gargle with water. If accompanied with breathing difficulty, take first aid measures such as artificial
Eye contact:	Do not rub. Flush with large amount of water until particles are removed. Seek medical advice.
Skin contact:	Wash with soap and water.
Ingestion:	Rinse mouth. Seek medical advice.

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:	N/A
Delayed Symptoms from Exposure:	N/A

4.3 **IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED**

Avoid breathing dust. Dust-proof masks should be worn when working.

5. FIRE-FIGHTING MEASURES

5.1 **EXTINGUISHING MEDIA**

Recommended Extinguishing Media:	Water spray or fog, CO2, dry chemic
Extinguishing Media Not to be Used:	Strong water current may cause powder to disperse and form explosive dust-air mixture.

5.2 **SPECIAL HAZARD**

Unusual Fire/Explosion Hazards:	Specific hazards arising from the chemical: Fine powder may form explosive dust-air mixture if finely dispersed in air. Fume and smoke may include toxic substances such as aromatic compounds.
Extinguishing Media Not to be Used:	Strong water current may cause powder to disperse and form explosive dust-air mixture.

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**

Avoid breathing dust. Dust-proof masks should be worn when working. Environmental precautions: Do not flush into sewer or natural watercourse. Methods for containment: Keep in air-tight container.

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:	Sweep the spilled powder slowly. Clean the remainder with wet cloth, wet paper, or vacuum cleaner. Vacuum cleaner must be equipped with dust proof filter and must be explosion-proof.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Recommendations for Handling:	No special precautions when used as intended. Keep containers closed. If toner, 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:	Appearance: Black Powder
Color:	Black
Odor:	Slight odor
Odor threshold:	N/A
Boiling point:	No data
Melting point:	App. 110°C (Flow temperature)
Flash point:	No data
Explosion limits:	No data
Relative density:	1-1.3
Auto-ignition temperature:	Not applicable

9.2 **OTHER INFORMATION**

Solubility: Insoluble to water, partially soluble to toluene and xylene. Explosive properties: Explosive dust-air mixture is formed when finely dispersed in air.

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 polymerization 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 oxidizing materials

10.6 **Hazardous Decomposition:** Will not occur.

11. INFORMATION ON TOXICOLOGICAL EFFECT

Mixtures:	N/A
Acute Toxicity:	Not classified.
Skin Corrosion/Irritation:	Not classified as irritant
Serious Eye Damage:	Not classified as irritant
Inhalation:	LC50 ; inh-rat>5.19mg/L/4 hours (maximum achievable concentration)
Sensitization:	Not classified as a sensitizer.
Mutagenicity:	Ames test negative.
Carcinogenicity:	Not available - Carbon black contained in this toner, is classified as “group 2B” (possibly carcinogenic to humans) by IARC. However, long-term inhalation test on rats using a toner preparation containing carbon black did not show any carcinogenic effects. Titanium dioxide classified as “group 2B” by IARC, but the carcinogenicity of titanium dioxide is limited to lug overload conditions by dust inhalation tests. The content in this toner is considered to be modulated by their inclusion within the matrix of the mixture, not to be respirable by itself making the situation impossible to occur under intended use of this toner. Thus, carcinogenicity of this toner mixture is concluded to be “Not available”.
Reproductive Toxicity:	Not available.
STOT - Single Exposure:	Not available.
STOT - Multiple Exposure:	Not available.
Ingestion:	LD50 > 2000mg/kg
Hazard Class Information:	N/A
Mixture on Market Data:	N/A
Symptoms:	N/A
Delayed/Immediate Effects:	N/A
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:** Fish(Oryzias latipes): LC50(96hr) > 100mg/L (WAF) Crustaceans(Daphnia magna): EC50(48hr) > 100mg/L (WAF) Algae(Pseudokirchneriella subcapitata): ErL50(0-72h)>100 mg/L, NOELR=100mg/L (WAF)

12.2 **Degradability:** Not available.

12.3 **Bioaccumulation Potential:** Not available.

12.4 **Mobility in Soil:** Not available.

12.5 **PBT & vPvB Assessment:** N/A

12.6 **Other Adverse Effects:** Not available.

13. DISPOSAL CONSIDERATIONS

Disposal Information:
Dispose of product 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:
If toner, 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:** None.

14.2 **Shipping Name:** None.

14.3 **Hazard Class:** None.

14.4 **Packing Group:** None.

14.5 **Environmental Hazards:** Not classified as environmentally hazardous under UN Model Regulations and marine pollutant under IMDG Code.

14.6 **User Precautions:** Handling such as exposure to water, rolling, falling, or giving shock to the container may result in breakage of the inner bag and result in scattering of the mixture. Avoid direct sunlight and hot places.

14.7 **Bulk Transport:** N/A

15. REGULATORY INFORMATION

15.1 **Regulatory Information:** TSCA: All ingredients are on the inventory or exempt from listing. SARA Title III Section 313: None

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:** California Proposition 65: Substances “Carbon black”, “Silica” and “Titanium dioxide” included in this toner are listed, but only airborne, unbound particles of respirable size are subject to the regulation. Thus, their substances bound inside toner are not subject to the

Proposition.

15.4 **Other Regulatory Information:** Issued according to GHS 8th revised edition and ANSI Z400.1/Z129.1-2010

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

Creation Date of this SDS: 11/13/2026

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
All trademarks and models referenced are property of their respective holders and are used for identification purposes only.
These products are not sponsored by, affiliated with, manufactured by or distributed by the named manufacturers.
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.