MATERIAL SAFETY DATA SHEET
LEXMARK TONER CARTRIDGE:
P/N: 10S0150

Revised Date: 06/21/01

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Lexmark has determined that Material Safety Data Sheets are not required for print cartridges. For customer convenience, Lexmark provides product information in this familiar format.

SECTION 1 - PRODUCT IDENTIFICATION

Name: Lexmark Toner Cartridge
P/N: 10S0150
Chemical Family: Cartridge contains toner
Product Use: Lexmark E210 Printer

SECTION 2 - GENERAL COMPOSITION OF TONER CONTAINED IN CARTRIDGE

COMPONENT	PERCENT (WT.)	CAS#	EXPOSURE STANDARDS	ACGIH TLV
Polyester Resin	70-80	(1)	(2)	(2)
Polyester/Styrene Resin	10-20	(1)	(2)	(2)
Carbon Black	3-4	1333-86-4	3.0 mg/ m^3(3)	3.5 mg/ m^3(3)
Polypropylene Wax	<3	(1)	(2)	(2)
Charge Control Agents	0.4-2	(1)	(2)	(2)

Notes: (1) Trade secret or patented molecule (NJTSRN 80100252-5001P).
(2) Specific workplace limits have not been established.
(3) Total dust, measured as carbon black.

SECTION 3 - HAZARDS IDENTIFICATION

The following information is based on data obtained from testing of the product or similar products and on the characteristics of the component chemicals:

Primary Routes of Entry: Inhalation of dust, skin contact.
Signs and Symptoms of Exposure: Toner on skin or mucus membranes (mouth, nose).
Medical Conditions Aggravated by Exposure: None known at intended levels of use. Exposure to high airborne dust concentrations, including toner, may aggravate existing respiratory conditions.
Physical Hazards: As with most finely divided dusts, explosion is possible when extremely high concentrations of dust and an ignition source are present. Not a hazard under normal conditions of use.

POTENTIAL HEALTH EFFECTS:

Inhalation:	Short Term Exposure	--	Testing and/or information on this or similar toners, or on the constituents of this toner indicate low inhalation toxicity. As with exposure to high concentrations of any dust, minimal respiratory tract irritation may occur if excessive amounts of toner dust are inhaled. Exposure not probable with intended use.
	Long Term Exposure	--	No adverse chronic effects known at intended level of use. Exposure not probable with intended use.
Skin Contact:	Short Term Exposure	--	Testing and/or information on this or similar toners, or on the constituents of this toner indicate this toner is not a skin irritant and is of low dermal toxicity.
Eye Contact:	Short Term Exposure	--	Toner may act as a mechanical irritant.
	Long Term Exposure	--	No adverse chronic effects known. Exposure not probable with intended use.
Ingestion:	Short Term Exposure	--	Testing and/or information on this or similar toners, or on the constituents of this toner indicate low oral toxicity. Exposure not probable with intended use.
	Long Term Exposure	--	No adverse chronic effects known. Exposure not probable with intended use.

SECTION 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 affected area 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. Seek medical attention if irritation develops and persists.
Ingestion: If conscious, immediately wash mouth out with plenty of water. Seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not applicable **Autoignition:** Not available
Extinguishing Media: CO_2, water spray or fog, dry chemical, or foam
Firefighting: NIOSH approved self-contained breathing apparatus may be required.
Fire and Explosion Hazard: Like many finely divided materials, toner dust, in high concentrations can form an explosive mixture in air which, if ignited, could result in dust explosion.
Hazardous Combustion Products: Carbon dioxide, carbon monoxide, and low molecular weight organics.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Occupational Spill: If a dust cloud is possible due to a spill involving a large number of cartridges, 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. To avoid possible dust explosion, do not use vacuum cleaners to cleanup spills. Contain for disposal. Oil permeated sweeping compound may assist in the cleanup of toner spilled on nonporous surfaces.

SECTION 7 - HANDLING AND STORAGE

Store in a cool dry place. Store away from oxidizing materials.
When handling, minimize generation of dust. Supply adequate ventilation.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Mechanical room ventilation
Eye Protection: None required for intended use in printer.
Protective Clothing: None required for intended use in printer.
Gloves: None required for intended use in printer.
Respirator: None required for intended use in printer.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Description:	Contains toner; solid, black powdery material with plastic-like odor		
Pressurized:	No	**pH:**	Not applicable
Melting Point:	Not available	**Water Solubility:**	Negligible
Boiling Point:	Not applicable	**% Volatility:**	Not applicable

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable
Conditions to Avoid: Combustible atmospheres of toner dust. Ignition sources, excessive heat, sparks and open flame.
Incompatibilities: Strong oxidizers
Hazardous Decomposition: Carbon dioxide, carbon monoxide, and unidentified organics.
Hazardous Polymerization: This product will not polymerize.

SECTION 11 - TOXICOLOGY INFORMATION

Acute Toxicity: Not acutely toxic: LD_{50} expected to be > 5000 mg/kg, based on data from studies of similar toners.
Chronic Toxicity: Not expected to be toxic. Industry tests on similar generic toner showed no signs of overt toxicity. Rats exposed to high levels of toner showed a chronic inflammatory response and a mild to moderate degree of lung fibrosis. There were no pulmonary changes of any type at the lower toner exposure level, which is most relevant in regard to potential human exposures. Pure carbon black, a minor component of this toner, has been listed by IARC as a group 2B (possible carcinogen) based on rat "lung particulate overload" studies. Toner is not listed by **IARC**, **NTP**, or **OSHA**.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental impact rating (0-4): Not available
Acute Aquatic Toxicity: Not available
Degradability: Not available
Log Bioconcentration Factor (BCF): Not available
Log Octanol/Water Partition Coefficient: Not available

SECTION 13 - WASTE DISPOSAL INFORMATION

This product is not a listed or hazardous waste in accordance with Federal Regulation 40 CFR Part 261 or the Code of California Regulations Title 22. 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.

SECTION 14 - TRANSPORTATION INFORMATION

This product is not regulated as a hazardous material by the **DOT**.

SECTION 15 - REGULATORY INFORMATION

All ingredients are listed on the **Toxic Substances Control Act (TSCA)** inventory, have been registered, or are exempt.

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.

All ingredients are listed on the Japanese **Existing and New Chemical Substances (ENCS)** list, have been registered, or are exempt.

All ingredients are listed on the Korean **Existing Chemicals List (ECL)**, have been registered, or are exempt.

This product contains no known materials which the State of California has found to cause cancer, birth defects or other reproductive harm -**California Proposition 65**.

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**.

This product contains a component (carbon black CAS# 1333-86-4) at a concentration above the MSL de minimus concentration - **Massachusetts Right to Know**.

This product contains a component (carbon black CAS# 1333-86-4) at a concentration above the de minimus concentration - **New Jersey Right to Know.**

This product contains a component (carbon black CAS# 1333-86-4) at a concentration above the de minimus concentration - **Pennsylvania Right to Know**.

SECTION 16 - OTHER

Disclaimer: Data are most current known to Lexmark at the time of preparation and are believed to be accurate. No warranty as to their accuracy or completeness is expressed or implied.