



REVISED DATE: 8/4/99

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Emergency: 1-859-232-3333

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: Optra C Color Laser Toner Cartridge: Cyan

P/N: 1361211

Chemical Family: Contains Toner

Product Use: Lexmark Optra C Printer

SECTION 2 - GENERAL COMPOSITION OF TONER CONTAINED IN CARTRIDGE

<u>Component</u>	<u>Percent</u>	<u>CAS #</u>	<u>OSHA PEL</u>	
<u>ACGIH TLV</u>			<u>(wt.)</u>	
Polyester Resin	85-95	(1)	(2)	(2)
Pigment	1 - 5	(1)	(2)	(2)
Titanium Dioxide	< 2	13463-67-7	15mg/m ³ (3)	
	10mg/m ³ (3)			
Chromium Compound	< 5	(1)	(2)	(2)

- Notes:** (1) Trade secret or patented molecule.
 (2) No work place exposure limits have been established.
 (3) Measured as total dust.

SECTION 3 - HAZARDS IDENTIFICATION

Primary Routes of Entry: Inhalation of dust, skin contact.

Signs and Symptoms of Exposure: Toner on skin or mucus membranes (mouth, eyes or nose) may cause discomfort.

Medical Conditions Aggravated by Exposure: None known at intended levels of use.

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 - Minimal respiratory tract irritation may occur as with any exposure to large amounts of dust. Exposure not probable with intended use.

Long Term Exposure - No adverse chronic effects known. Significant exposure not probable with intended use.

Skin Contact: Short Term Exposure - Test data from similar toner materials indicates this toner is not a skin irritant and is of low dermal toxicity.

Long Term Exposure - Rare individuals may note skin rash with repeated contact. Significant exposure not probable with intended use.

Eye Contact: Short Term Exposure - Toner may act as a mechanical irritant.

Long Term Exposure - No adverse chronic effects known. Significant exposure not probable with intended use.

Ingestion: Short Term Exposure - Test data from similar toner materials indicates low oral toxicity. Exposure not probable with intended use.

Long Term Exposure - No information available. Exposure not probable with intended use.

SECTION 4 - FIRST AID MEASURES

Inhalation: If symptoms, such as shortness of breath, are experienced, remove source of contamination or move to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash affected area with soap and water. Should irritation occur, obtain 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: Immediately wash mouth out with plenty of water. If irritation occurs, seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not Available

Autoignition: Not Available

Extinguishing Media: CO₂, water spray, foam, or dry chemical. Avoid full water jet.



MATERIAL SAFETY DATA SHEET
OPTRA C COLOR LASER TONER CARTRIDGE: CYAN
P/N 1361211

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.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Occupational 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 dust pan. Contain for disposal. To avoid possible dust explosion, do not use vacuum cleaners when large amounts of toner are involved in a spill. Oil permeated sweeping compound may assist in the clean-up of toner spilled on nonporous surfaces. Avoid inhalation of dust.

SECTION 7 - HANDLING AND STORAGE

To avoid damage to cartridge and accidental contact with toner - KEEP OUT OF REACH OF SMALL CHILDREN.

STORE IN A COOL, DRY PLACE.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: None required with intended use. Mechanical room ventilation recommended.

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: Cartridge contains finely divided cyan (blue) powder with faint odor.

Pressurized: No **% Volatility:** Not applicable

Flash Point: Not applicable **pH:** Not applicable

Solubility in Water: Negligible (toner) **Evaporation**

Rate: Not applicable

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Ignition sources in combustible atmospheres of toner dust.
Throwing toner into an open fire.

Incompatibilities: Strong oxidizers

Hazardous Decomposition: Oxides of carbon



Polymerization: This product will not polymerize.

SECTION 11 - TOXICOLOGY INFORMATION

Acute Toxicity: Not expected to be acutely toxic. LD₅₀ oral, rat >5000 mg/kg.

Chronic Toxicity: Contents of cartridge 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 regards to potential human exposures.

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 - DISPOSAL INFORMATION

As formulated and packaged, this toner and cartridge is not classified as a hazardous waste by either Federal Regulation 40 CFR Part 261 or the Code of California Regulations Title 22.

Dispose of in accordance with local, state, and federal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Not classified as a hazardous material or substance under **DOT**.

SECTION 15 - REGULATORY INFORMATION

All ingredients are registered under the **Toxic Substances Control Act (TSCA)** or under polymer exemption.

All ingredients are exempt, registered or considered registered (polymers) under

European

Inventory of Existing Commercial Chemical Substances (EINECS).

None of the product ingredients are listed as **Emergency Planning and Community Right-to Know Act (EPCRA)- Section 302: Extremely Hazardous Substances (EHS).**



This product contains <5% by weight chromium (+3) compounds (<0.5% as chromium) and <5% by weight copper compounds (<0.5% as copper). Chromium and copper compounds are subject to the reporting requirements of **Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.**

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.**

SECTION 16 - OTHER

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