



**MATERIAL SAFETY DATA SHEET
LEXMARK TONER CARTRIDGE; YELLOW: P/N 10E0042**

Revised 05/10/00

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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; Yellow
P/N: 10E0042
Chemical Family: Contains Toner
Product Use: Lexmark Optra C710 Printer

SECTION 2 - GENERAL COMPOSITION OF TONER CONTAINED IN CARTRIDGE

COMPONENT	PERCENT (wt.)	CAS #	OSHA PEL	ACGIH TLV
Polyester Resin 1	40-50	(1)	(2)	(2)
Polyester Resin 2	40-50	(1)	(2)	(2)
Polyester Resin 3	3-10	39382-25-7	(2)	(2)
Organic Pigment	2-5	76199-85-4	(2)	(2)
Charge Control Agent 1	<2	(1)	(2)	(2)
Charge Control Agent 2	2-5	72869-85-3	(2)	(2)
Silica (Amorphous)	1-2	7631-86-9	<u>80 mg/m³</u> %SiO ₂	10 mg/m ³

Notes: (1) Trade Secret or patented molecule.
(2) Specific workplace exposure limits have not been established.

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.

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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.

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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 - Chronic inhalation exposure to high airborne concentrations may result in irreversible adverse pulmonary effects. Significant exposure not probable with intended use.

Skin Contact: Short Term Exposure - Not a skin irritant.

Long Term Exposure - No adverse effects known. 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 - Expected to have 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 are experienced, remove source of contamination or move victim to fresh air. Seek medical advice if symptoms persist.

Skin Contact: Wash with soap and water. Should irritation occur, obtain medical advice.

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 rinse mouth out with plenty of water. If irritation occurs, seek medical advice.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not Applicable

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

Firefighting: NIOSH approved self-contained breathing apparatus (SCBA) may be required if large number of cartridges is involved..

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.

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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

Exposure Limits:

OSHA: 15 mg/m³ (dust, measured as total dust-PNOR)
5 mg/m³ (dust, measured as respirable dust-PNOR)
ACGIH: 10 mg/m³ (dust, measured as total dust-PNOR)
3 mg/m³ (dust, measured as respirable dust-PNOR)

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

Other: Wash hands after handling

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Description: Cartridge contains finely divided yellow powder with faint to no odor.

Particle Size: <0.03 mm (toner)

Pressurized: No

Solubility in Water: Negligible (toner)

% Volatility: 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

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Hazardous Decomposition: Oxides of carbon

Polymerization: This product will not polymerize.

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SECTION 11 - TOXICOLOGY INFORMATION

Acute Toxicity: Not expected to be acutely toxic

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

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 registered or considered registered (polymers) under **European Inventory of Existing Commercial Chemical Substances (EINECS/ELINCS)**.

All ingredients are listed under **Japan EICS**.

All ingredients are listed on the **Australian Inventory of Chemical Substances (AICS)** or registered.

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.