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Lexington, Kentucky 40550-1876 Information: 1-606-232-3000

Emergency: 1-606-232-3333

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: Yellow Toner Cartridge

**P/N:** 12A1453

**Chemical Family:** Cartridge contains toner **Product Use:** Optra Color 1200 Printers

#### SECTION 2 - GENERAL COMPOSITION OF TONER CONTAINED IN CARTRIDGE

COMPONENT	PERCENT (wt.)	CAS#	OSHA PEL	ACGIH TLV
Polyester Resin - 1	75-85	(1)	(2)	(2)
Polyester Resin - 2	5-10	39282-25-7	(2)	(2)
Charge Control Agent	0.5-1.5	114803-11-1	(2)	(2)
Organic Pigment	2-3	4531-49-1	(2)	(2)
Polypropylene Wax	2-3	9010-79-1	(2)	(2)
Amorphous Silica	1-1.5	7631-86-9	(3)	10 mg/m <sup>3</sup> (4) 3 mg/m <sup>3</sup> (5)
Silica (Silanamine)	0.2-0.4	68909-20-6	(2)	(2)

**Notes:** (1) Trade secret or patented molecule (NJTSN 80100252-5001P).

- (2) Specific workplace exposure limits have not been established.
- (3) Calculated (80 mg/m<sup>3</sup>/%SiO<sub>2</sub>)
- (4) Inhalable particulate
- (5) Respirable particulate

#### **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, 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.

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.

<u>Long Term Exposure</u> - Rare individuals may note skin rash with repeated

contact. 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. 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<sub>2</sub>, water spray or fog, dry chemical, or foam

**Firefighting:** NIOSH approved self contained breathing apparatus may be required if a 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

**Hazardous Combustion Products:** Carbon dioxide, carbon monoxide, phenol derivatives at temperatures >300°C.

## **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. 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

**Exposure Limits:** 

**OSHA:** 15 mg/m<sup>3</sup> (total dust, particulates not otherwise regulated-PNOR)

5 mg/m<sup>3</sup> (respirable dust, particulates not otherwise regulated-PNOR)

80 mg/m<sup>3</sup>/%SiO<sub>2</sub> (total dust, measured as amorphous silica)

**ACGIH:** 10 mg/m<sup>3</sup> (total dust, particulates not otherwise classified-PNOC)

3 mg/m<sup>3</sup> (respirable dust, particulates not otherwise classified-PNOC)

10 mg/m³ (inhalable particulate, measured as amorphous silica) 3 mg/m³ (respirable particulate, measured as amorphous silica)

**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:** Yellow odorless powder **Softening Point:** 117-123<sup>o</sup>C

**Pressurized:** No **pH:** Not applicable

Vapor Pressure:Not availableParticle Size:D50 8.5umEvaporation Rate:Not applicableWater Solubility:NegligibleBoiling Point:Not applicable% Volatility:Not availableSpecific Gravity:1.16 @ 20°C

### **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 phenol derivatives at

temperatures >300°C.

**Hazardous Polymerization:** This product will not polymerize.

## **SECTION 11 - TOXICOLOGY INFORMATION**

**Acute Toxicity:** Not expected to be acutely toxic. **Chronic Toxicity:** Not expected to be toxic.

### **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 registered under the **Toxic Substances Control Act (TSCA)** or under polymer exemption.

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

None of the product components are present above the minimum quantities of listed chemicals in **EPCRA Section 313 Supplier Notification.** 

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

#### **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.