



MATERIAL SAFETY DATA SHEET
LEXMARK 4227 SERIES PRINTER RIBBON:
P/N 13L0034
Revised Date: 05/03/01

Lexmark International, Inc.
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Lexington, Kentucky 40550-1876 Information: 1-859-232-3000
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 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Name: Lexmark 4227 Series Printer Ribbon
Part Number: 13L0034
Chemical Family: Inked Ribbon
Product Use: Lexmark 4227 and 4227 Plus Printer

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	PERCENT (wt.)	CAS #	OSHA PEL	ACGIH TLV
Black Dye	15-25%	8005-02-5	(1)	(1)
Solvent Violet 8	0-10%	52080-58-7	(1)	(1)
Yellow Dye	0-10%	6358-36-7	(1)	(1)
Fatty Acid	65-75%	112-80-1	5mg/m ³	5mg/m ³
Nonyl Phenol	1-5	84852-15-3	(1)	(1)
Nylon Substrate	Not Applicable	32131-17-2	(1)	(1)

Note: (1) Specific workplace exposure limits have not been established.

SECTION 3 - HAZARDS IDENTIFICATION

The following information is based on data obtained from testing of ink and on the characteristics of component chemicals:

Primary Routes of Entry: Skin contact

Signs and Symptoms of Exposure: Ink stains on skin, skin irritation.

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

Physical Hazards: None known at intended levels of use.



POTENTIAL HEALTH EFFECTS:

Inhalation:	<u>Short Term Exposure</u>	--	No acute effects known or expected.
	<u>Long Term Exposure</u>	--	No adverse chronic effects expected.
Skin Contact:	<u>Short Term Exposure</u>	--	May cause skin irritation in sensitive individuals.
	<u>Long Term Exposure</u>	--	No adverse chronic effects known or expected. One component, present at trace levels, is a skin sensitizer.
Eye Contact:	<u>Short Term Exposure</u>	--	No acute effects known or expected.
	<u>Long Term Exposure</u>	--	No adverse chronic effects known or expected.
Ingestion:	<u>Short Term Exposure</u>	--	No acute effects known or expected.
	<u>Long Term Exposure</u>	--	No adverse chronic effects expected.

SECTION 4 - FIRST AID MEASURES

Inhalation: No acute or chronic effects known or expected.

Skin Contact: Wash affected area with soap and water. Should irritation occur, seek medical attention.

Eye Contact: 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: Seek medical attention if ribbon is swallowed. Contact physician or poison center. Do not induce vomiting unless instructed to do so by a physician or poison center.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not applicable

Autoignition: Not applicable

Extinguishing Media: CO₂, dry chemical, or foam.

Firefighting: NIOSH approved self-contained breathing apparatus may be required. Treat as oil fire.

Fire and Explosion Hazard: No unusual fire and explosion hazards are known for this product.

Hazardous Combustion Products: Oxides of carbon.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Occupational Spill: Not applicable for this type of product.

SECTION 7 - HANDLING AND STORAGE

STORE IN A COOL DRY PLACE.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: None required for intended use in printer.

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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Description:	Black ink on nylon substrate with faint odor		
Pressurized:	No	pH:	Not Applicable
Freezing Point:	Not Applicable	Specific Gravity:	Not Applicable
Melting Point:	Not Applicable	Water Solubility:	Not Applicable
Evaporation Rate (Butylacetate = 1)	Not Applicable	% Volatiles:	Not Applicable
Boiling Point:	Not Applicable		

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: None known.

Incompatibilities: None known.

Hazardous Decomposition: Oxides of carbon, acid gases, low molecular weight organics.

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 chronically 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.

One component, nonyl phenol, (CAS# 84852-15-3) requires export notification under the **Toxic Substances Control Act -TSCA 12(b)**.

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

All ingredients are registered or considered registered (polymers) under **Canadian Domestic Substances List (DSL/NDSL)**.

All ingredients are listed in **Australian Inventory of Commercial Substances (AICS)** or registered in Australia.

This product contains trace quantities of aniline (CAS# 62-53-3) and Michler's ketone (90-94-8) materials known to the State of California to cause cancer – **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.



**APPROVAL DOCUMENTATION: LEXMARK MSDS OR PRODUCT
INFORMATION SHEET**

The attached document is the final draft of a new Lexmark MSDS. If the technical information provided for this document is accurate and the attached document meets with your general approval, please sign below and return to Environmental Health and Safety 761A/001-2. The final MSDS and supporting data will be included in the appropriate Lexmark databases.

	<u>Signature</u>	<u>Date</u>	<u>Dept</u>
1. PRODUCT ENGINEER	_____	_____	_____
PRINT NAME	_____		
2. PRODUCT MANAGER	_____	_____	_____
PRINT NAME	_____		
3. EH&S (Corporate)	_____	_____	_____