



**Lanier Worldwide, Inc.**  
 2300 Parklake Dr., N. E.  
 Atlanta, GA 30345-2979

**Emergency Telephone:** (800)526-4371

**MATERIAL SAFETY DATA SHEET**

**Section 1: Chemical Product and Company Information**

Identity:	<b>Toner Cartridge for M4050</b>	MSDS No.	<b>FX-068</b>
Product ID:	491-0279	Issued:	9/9/97
Synonyms & Common Names:	Toner, Black Toner for Lanier M4050	Supersedes:	<b>none</b>
Uses:	M4050 Fax	Date:	<b>9/9/97</b>
Chemical Formula:	Mixture	Prepared by:	<b>Lanier QA/EH&amp;S Department</b>
		European Contact:	<b>Lanier Worldwide, WSM Europe, Walter Fricke, Im Taubental D-41468 Neuss, Germany +49-2131-387-177</b>

**Section 2: Composition / Information on Ingredients**

	<b>PERCENT</b>	<b>CAS No.</b>	<b>EXPOSURE LIMITS</b>	<b>SOURCE</b>
Styrene & acrylates terpolymer	not given	9003-53-6	not listed	n/a
		25639-21-8	not listed	n/a
		25153-46-2	not listed	n/a
Carbon black	not given	1333-86-4	3.5mg/m <sup>3</sup>	OSHA PEL
			3.5mg/m <sup>3</sup>	ACGIH TLV
Polypropylene	not given	9003-07-0	not listed	n/a
Charge control agent	not given	109125-51-1	not listed	n/a
		109125-50-0	not listed	n/a
		84179-66-8	not listed	n/a
		67762-90-7	not listed	n/a
Additives	not given			

\*PEL as the product: 15mg/m<sup>3</sup> (total dust), 5mg/m<sup>3</sup> (respirable dust)  
 \*TLV as the product: 10mg/m<sup>3</sup> (total dust), 5mg/m<sup>3</sup> (respirable dust)

**Section 3: Hazards Identification**

**Hazard Rating:**

FIRE = 0  
 REACTIVITY = 0  
 HEALTH = 0  
 SPECIAL = none

Health Hazards (Acute, Chronic, Immediate and Potential): Minimum irritation to respiratory tract may occur as with exposure to any non-toxic dust. May cause gasping if inhaled. Inhalation should be avoided. May cause temporary eye discomfort.

Health Hazards of Long Term exposure (Chronic): A manufacturer sponsored chronic inhalation study in rats using a special test toner revealed there were no lung changes at all in the lowest exposure level (1mg/m<sup>3</sup>), the most relevant level to potential human exposures. A very slight degree of fibrosis was noted in 25% of the animals at the middle exposure level (4mg/m<sup>3</sup>), while a slight degree of fibrosis was observed at the highest exposure level (16mg/m<sup>3</sup>) in all animals. These findings are attributed to "Lung Overloading", a generic response to excessive amount of any dust retained in the lungs for a prolonged interval. The special test toner was ten times more respirable than commercially available toner to comply with EPA testing protocol and would not function properly in Xerographic equipment.

**Section 4: First Aid Measures**

<b>Inhalation:</b>	Remove to fresh air if effects occur. Consult local medical personnel	<b>Eye Contact:</b>	In case of contact, immediately flush eyes with water for 15 minutes.
<b>Skin Contact:</b>	Wash with soap and water.	<b>Ingestion:</b>	Dilute stomach contents with water. Call a physician

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## Section 5: Fire Fighting Measures

Suitable extinguishing media: CO<sub>2</sub>, dry chemical, foam or water.  
Extinguishing media which may not be used for safety reasons: none

This material will burn in case of fire. The decomposition products are CO, CO<sub>2</sub>, and NO<sub>x</sub>. Avoid inhalation of smoke.

Special protective equipment for fire fighters: none

UEL: n/a LEL: n/a

## Section 6: Accidental Release Measures

Sweep up or clean up with an approved toner vacuum.

## Section 7: Handling and Storage

Special Handling: Cleanse skin after contact before breaks or meals, and end of work day. Avoid inhalation.

Special Storage: Keep out of reach of children. Store in a cool dry place.

## Section 8: Exposure Control and Personal Protection Information:

Respiratory Protection: none required under normal use.

Hand Protection: none required under normal use.

Eye Protection: none required under normal use.

Skin Protection: none required under normal use.

## Section 9: Physical and Chemical Properties

### CHARACTERISTICS:

Appearance:	Black	Melting point:	110°C
Form:	Fine powder	Vapor pressure:	n/a
Odor:	Odorless	Vapor density:	n/a
Solubility in Water:	Negligible	Evaporation rate:	n/a
Specific gravity:	1.15	Boiling point:	n/a

## Section 10: Stability and Reactivity

Conditions to avoid: none

Materials to avoid: none

Stability: Stable

Hazardous decomposition products: n/a

## Section 11: Toxicological Information:

Acute oral toxicity (rat) LD<sub>50</sub>: No data

Ames Test result: Negative

Skin irritation (rabbit): no data

Carcinogenicity: In 1996, the IARC reevaluated carbon black as a GROUP 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at a level that induce particle overload of the lungs. Studies performed in mice have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner and tumor development in rats.

## Section 12: Environmental / Ecological Information

None

## Section 13: Disposal Consideration

Waste material may be dumped or incinerated under conditions which meet all federal, state and local environmental regulations.

## Section 14: Transportation Information

None. This is not a hazardous product.

## Section 15: Regulatory Information

None.

## Section 16: Miscellaneous Information

None.

*Information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. On the basis of the data available to us, this toner is not a dangerous substance. One should, however, observe the usual precautionary measures for dealing with chemicals.*