



Lanier Worldwide, Inc.  
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Emergency Telephone: (800)526-4371

**MATERIAL SAFETY DATA SHEET**

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

Identity:	<b>7214 Black Toner</b>	MSDS No.	<b>CP-310</b>
Product ID:	117- 0235	Issued:	12/16/97
Synonyms & Common Names:	Toner, Black Toner	Supersedes:	<b>none</b>
		Date:	<b>12/16/97</b>
Uses:	M7214 Copier	Prepared by:	<b>Lanier QA/EH&amp;S Department</b>
Chemical Formula:	Mixture	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**

	PERCENT	CAS No.	EXPOSURE LIMITS	SOURCE
Styrene butylacrylate- butylmethacrylate copolymer	} > 90.0	29497-14-1	not listed	n/a
Polystyrene		9003-53-6	not listed	n/a
Carbon black	< 6.0	1333-86-4	3.5mg/m <sup>3</sup> 3.5mg/m <sup>3</sup>	OSHA PEL ACGIH TLV
Polypropylene	< 1.0	9003-07-0	not listed	n/a
Organic ammonium salt	< 2.0	102561-46-6	not listed	n/a

\*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 = 1

REACTIVITY = 0

HEALTH = 1

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**

**Inhalation:** Remove to fresh air if effects occur. Consult local medical personnel

**Eye Contact:** In case of contact, immediately flush eyes with water for 5 minutes.

**Skin Contact:** Wash with soap and water.

**Ingestion:** Rinse mouth with water. Call a physician.

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Section 5: Fire Fighting Measures

Suitable extinguishing media: CO2, dry chemical, foam or water.
Extinguishing media which may not be used for safety reasons: none
Ignition temperature: >350°C
This material will burn in case of fire. The decomposition products are CO, CO2, and Nox. 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: none
Special Storage: No special storage requirements for safety reasons. Store in a cool dry place.

Section 8: Exposure Control and Personal Protection Information:

Respiratory Protection: Use of a dust mask is recommended when
Handling a large quantity of toner or during long term exposure.
Eye Protection: none required under normal use.
Hand Protection: none required under normal use.
Skin Protection: none required under normal use.

Section 9: Physical and Chemical Properties

CHARACTERISTICS:

Appearance: Black Melting point: n/a
Form: Fine powder Vapor pressure: n/a
Odor: Odorless Vapor density: n/a
Solubility in Water: Negligible Evaporation rate: n/a
Specific gravity: 1.1 Boiling point: n/a

Section 10: Stability and Reactivity

Conditions to avoid: none Materials to avoid: none Stability: Stable
Hazardous decomposition products: CO, CO2, and NOx when burned.

Section 11: Toxicological Information:

Acute oral toxicity (rat) LD50: Over 2.0 g/kg Ames Test result: Negative
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

Section 15: Regulatory Information

None

Section 16: Miscellaneous Information

None