

MATERIAL SAFETY DATA SHEET

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Section 7: Handling and Storage

Special Handling: Cleanse skin after contact before breaks or meals, and end of workday.
Special Storage: Store in a cool, dry place. Avoid direct sunlight. Keep out of reach of children. Keep from contact with oxidizing materials. Do not handle in windy areas. Flying powder may enter eyes. Minimize inhalation of dust. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work periods.
Miscellaneous:

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.
Ventilation: Local exhaust equipment is needed. Skin Protection: none required under normal use.
Exposure Guidelines: USA OSHA (TWA/PEL) : 15mg/m³ (Total Dust); 5mg/m³ (Respirable fraction)
ACGIH (TWA/TLV) : 10mg/m³ (Total dust); 3mg/m³ (Respirable fraction)
DFG (MAK) : 4mg/m³ (Inhalable fraction); 1.5mg/m³ (Respirable fraction)

Section 9: Physical and Chemical Properties

CHARACTERISTICS:

Appearance:	Black	Melting point:	85 – 120°C (softening point)
Form:	Powder	Vapor pressure:	n/a
Odor:	Slight plastic odor	Vapor density:	n/a
Solubility in Water:	Negligible	Evaporation rate:	N/a
Density:	4.0 – 6.0	Boiling point:	N/a
Flammability:	Non-flammable solid (according to test methods of USA 16 CFR 1500.44 and annex V of EU Directive 84/449/EEC)	Fat solubility:	Partially soluble in toluene and xylene

Section 10: Stability and Reactivity

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

Section 11: Toxicological Information:

Acute Toxicity: Inhalation: (Data from similar material without ferrite): LC50:>4.93mg/L/4hr (rats) (Mean maximum attainable concentration)
Ingestion: (Data from the ferrite): LD50:>2000mg/kg (rats)
Eye: (Data from the ferrite): Not classified as irritant, according to OSHA Haz Com Standard and EU Directive 67/548/EEC based on test data of rabbits.
Sensitizer: No sensitizer according to Annex I of EU Directive 67/548/EEC and strong sensitizer list of FHSA.
Mutagenicity: (Data from the ferrite): Ames test negative
Reproductive Toxicity: Manganese and its organic compounds: There is a study showing that prolonged inhalation of excessive amounts of manganese may cause adverse effects on the fertility of male workers. However, normal use and handling of this product as intended does not result in inhalation if excessive amounts of manganese.
Carcinogenicity: Carbon Black: IARC 2B (Possible human carcinogen based on animal testing). Not listed in NTP, OSHA(USA) regulation, California Proposition 65 and Annex I of EU Directive 67/548/EEC.

Section 12: Environmental / Ecological Information

No information indicating any adverse ecological effects.

Section 13: Disposal Consideration

Used Toner should be disposed of under conditions that meet all federal, state and local environmental regulations. Disposal regulations vary from locality to locality, therefore consult your local Lanier office or the EPA to determine the proper method for disposal. Do not incinerate loose or spilled Toner.

Section 14: Transportation Information

None. This is not a hazardous product.

Section 15: Regulatory Information

SARA Title III, 313: Chemical name: Manganese compounds 90 - 95% weight (as manganese metal)
USA Label Information: CAUTION! Do not breathe dust, Do not taste or swallow. Prolonged inhalation of excessive amounts of manganese may cause lung damage and nervous system effects.

Section 16: Miscellaneous Information

Judgment as to the suitability of information contained herein for user's purposes is the responsibility of the purchaser. Therefore, although reasonable care has been taken in the preparation of this information, Lanier Worldwide, Inc. extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to user's intended purposes or for consequences of its use. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we do not guarantee that these are the only hazards that exist.

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 product is not a dangerous substance. One should, however, observe the usual precautionary measures for dealing with chemicals.