

MATERIAL SAFETY DATA SHEET

Emergency Telephone: 800-551-3087

Section 1: Chemical Product and Company Information

Identity:	Black Toner Cassette Type Q1	MSDS No.	CP- 430
Product ID:	480-0239	Issued:	12/23/2004
Synonyms & Common Names:	Toner Black Cassette Type Q1	Supersedes:	none
Uses:	Lanier LC031c	Date:	12/23/2004
Chemical Formula:	Mixture	Prepared by:	EH&S Department 770-496-9500
		Approved by:	Larry Choskey, Manager, CEH&S
		European Contact:	Walter Fricke, Manager, Safety & Environment, Lanier Worldwide, Inc. Im Taubental D-41468 Neuss, Germany +49-2131-387-177

Section 2: Composition / Information on Ingredients

	PERCENT	CAS No.	EXPOSURE LIMITS	SOURCE
Polyester resin	75 – 85	Confidential	Not listed	N/a
Carbon black	< 10	1333-86-4	3.5 mg/m ³	OSHA PEL
			3.5 mg/m ³	ACGIH TWA
Wax	< 10	Confidential	Not listed	N/a
Silica	<5	68909-20-6	Not listed	N/a
Zinc stearate	< 2	557-05-1	15 mg/m ³	OSHA PEL
			10 mg/m ³	ACGIH TWA

*PEL as the product: 15mg/m³ (total dust), 5mg/m³ (respirable dust)

*TLV as the product: 10mg/m³ (total dust), 5mg/m³ (respirable dust)

Section 3: Hazards Identification

HMIS Rating:	
FLAMMABILITY = 1	HEALTH = 1
REACTIVITY = 0	SPECIAL = none

Health Hazards (Acute, Chronic, Immediate and Potential):

Acute Eye Effects: Non-irritant

Acute Skin Effects: Non-irritant, non-sensitizer

Acute Inhalation Effects: Excessive inhalation may cause irritation of the nose, throat and respiratory tract.

Acute Ingestion Effects: None currently known.

Primary Entry Routes: Inhalation, dermal contact, incidental ingestion.

Health Hazards of Long Term exposure (Chronic): Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust.

Carcinogenicity: Carbon Black was reclassified as a Group 2B by the IARC in 1996 based upon the result of only the inhalation study in rats. However, there was not observed the incidence of tumors on the test results on dermal or oral studies. Also, 2-years inhalation study using a typical toner containing carbon black showed no association between toner exposure and animal tumors.

Medical Condition Aggravated By Long Term Exposure: Respiratory disorders, such as asthma, may be aggravated by prolonged exposure to high concentrations of this product.

Miscellaneous: Prolonged exposure to dusts of this product may irritate the respiratory system.

Section 4: First Aid Measures

Inhalation:	Remove to fresh air immediately. Get medical attention if needed.	Eye Contact:	In case of contact, immediately flush eyes with water for 15 minutes. Get medical attention if needed.
Skin Contact:	Wash with soap and water. Wash clothing before reuse. If irritation occurs or is persistent, seek medical attention.	Ingestion:	Dilute stomach contents with several glasses of water. Get medical attention.

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Section 5: Fire Fighting Measures

Suitable extinguishing media: CO₂, dry chemical, foam or water.
Fire Fighting Instructions: Generally by sprinkling or extinguisher.

Unusual Fire or explosion hazards: Combustible powder. Dust of this product at sufficient concentrations can form explosive mixtures with air.

Hazardous Combustion Products: CO₂, Carbon Monoxide and smoke.

Miscellaneous: This material is capable of creating a dust explosion. Keep away from heat, sparks and flame.

UEL: n/a

LEL: n/a

Section 6: Accidental Release Measures

Spill / leak Procedures: If spilled, sweep up using an approved toner vacuum with a 0.5 micron filter or smaller, such as the Atrix AAA Toner Vacuum or 3M Toner Vacuum. Use of a vacuum cleaner not rated for toner particles, could result in a fire or personal injury. Remove residue with soap and cold water.

Miscellaneous: Keep product out of sewers and watercourses.

Personal protection: Avoid inhalation of dust.

Section 7: Handling and Storage

Special Handling: Cleanse skin after contact before eating, drinking or smoking.
Do not handle in areas where the wind blows. Flying powder may enter eyes.
Minimize the breathing of dust.

Special Storage: Avoid direct sunlight. Keep out of reach of children. Store in a cool, dry place. Below 35C (95F)

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 – 150°C (softening point)
Form:	Fine solid powder	Vapor pressure:	N/a
Odor:	Odorless	Vapor density:	N/a
Solubility in Water:	Negligible	Evaporation rate:	N/a
Specific gravity:	1.1 – 1.5	Boiling point:	N/a
Density:	N/a		

Section 10: Stability and Reactivity

Conditions to avoid: None

None
Will not occur

Materials to avoid: None

Stability: Stable

Hazardous decomposition products: Will not occur

Polymerization: Will not occur

Section 11: Toxicological Information:

Ames test: Negative

Acute skin irritation: non-irritant

Eye Effects: non-irritant

Acute oral toxicity: LD₅₀ >5000mg/kg

Acute inhalation effects: LC₅₀ (4H) is in excess of 5.37 mg/l (this was the highest attainable concentration).

Special effects: Carcinogenicity: In 1996 the IARC reclassified 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 levels that induce particle overload of the lung. Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, 2-years cancer bioassay using a typical toner preparation containing carbon black did not demonstrate an association between toner exposure and tumor development in rats.

Section 12: Environmental / Ecological Information

Acute toxicity to fish: LC₅₀ is greater than 1000mg/l (Estimated from the same product)

Bioaccumulation: Not known in bioaccumulation

Persistence/Degradability: Not known

Acute toxicity to daphnia: EC₅₀ is greater than 1000mg/l (Estimated from the same product)

Algae inhibition test: Not available

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.

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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

International regulations:

RID/ADR	Not applicable	ICAO-TI/ATA-DGR	Not applicable
DOT 49 CFR	Not applicable	UN Classification Number	Not applicable
ADNR	Not applicable	IMDG Code	Not applicable

Specific precautionary transport measures: Avoid direct sunlight. Do not keep over 35°C (95°F).

Product label: Black Toner Cassette Type Q1

Section 15: Regulatory Information

Regulation: Canadian Disclosure List: Zinc stearate: (557-05-1)

TSCA (Toxic Substances Control Act): All chemical substances in this product comply with all applicable rules or orders under TSCA.

RCRA (40 CFR 261): Product or components not listed.

CERCLA/SARA: Not regulated.

California Proposition 65: neither toner, nor any of its components are listed as chemicals known to cause cancer or reproductive system effects.

Controlled Products Regulations (Canada): This product has been classified in accordance with the hazard criteria of the CPR.

Workplace Hazardous Materials Information System (Canada): No toxicology information is available.

Other State Regulations: Carbon Black is listed in the New Jersey Right to Know List, Pennsylvania Hazardous Substances List, and the Massachusetts Substance List.

US/Canada Label Statements: Low hazard for recommended handling: Minimize dust generation and accumulation. Use with adequate ventilation.

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.

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