



MATERIAL SAFETY DATA SHEET

TONER CARTRIDGE

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A-SP-ELMD084-AA-0

Rev A

SECTION 1 - IDENTIFICATION OF SUBSTANCE/COMPANY PREPARING INFORMATION

Product Name: Toner Cartridge **Part Numbers:** 108473-B21, LN32X-AA

Distributor's Name: Digital Equipment Corporation, Maynard, MA USA

Emergency Phone Numbers: **Non-Emergency (U.S.) Phone Number:**

North America +1 800 228 5635, ext. 123 +1 978 496 9242

Worldwide +1 612 221 3999, ext. 123

Supersedes Date: None

Use: LN32 laser printer **Preparation Date:** April 19, 1999

SECTION 2 - COMPOSITION/INGREDIENTS

This toner cartridge is considered an article.

INGREDIENTS	CAS	%	ACGIH TLV	OSHA PEL
Polyolefin	9003-07-0	1-10	NA	NA
Magnetite	1309-38-2	45-55	NA	NA
Styrene/acrylate polymer	25767-47-9	40-50	NA	NA

SECTION 3 - HAZARD IDENTIFICATION

Hazard to Humans - None during normal use
 Primary Route of Entry - Dermal and inhalation

SECTION 4 - FIRST-AID MEASURES

- If Inhaled** - Remove from exposure.
- If on Skin** - Wash skin with soap and water.
- If in Eyes** - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.
- If Swallowed** - Dilute by drinking water.

SECTION 5 - FIRE-FIGHTING MEASURES

Special Fire-Fighting Procedure - Wear protective clothing and self-contained breathing apparatus.	Unusual Fire or Explosion Hazards - Toner is a combustible powder; dust may be explosive.
Extinguishing Media - Dry chemical, foam, water, carbon dioxide	Hazardous Combustion Products - Carbon monoxide, carbon dioxide

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Minimize dust during cleanup.

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SECTION 7 - HANDLING AND STORAGE

Engineer Control - None

Work Practices - None

Storage Requirement - Store in dry warehouse at normal ambient temperatures.

Procedure/Equipment - None

Procedures for Leaks or Spills - If spilled, wet wipe or pick up by vacuum cleaner equipped with a hepa filter; remove residue with soap and water.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures - None

Personal Protective Equipment - None

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Fine black powder

Odor and Odor Threshold: Slight

PH: Not applicable

Boiling Point: Not applicable

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Melting/Softening Point: 43°C-60°C (110°F-140°F)

Specific Gravity: 3

Flammable Limits: None

Explosive Properties: Dust may be explosive

Partition Coefficient: Not applicable

Oxidizing Properties: Not applicable

Solubility in Water: Insoluble

Percent Volatile: Not applicable

Evaporation Rate: Not applicable

Freezing Point: Not applicable

Flash Point: Not applicable

Auto-Ignition Temperature: Not applicable

SECTION 10 - STABILITY AND REACTIVITY

Stability - Stable

Hazardous Decomposition Products - Carbon dioxide, carbon monoxide

Incompatibility - None

Hazardous Polymerization - Will not occur

Conditions to Avoid - Heat, flames, fire

SECTION 11 - TOXICOLOGICAL INFORMATION

Animal Experiment (based on testing of toner) -

Acute - Not acutely toxic by oral route (LD₅₀ >5 gm/kg); inhalation LC₅₀ > 5 mg/l or dermal route (LD₅₀ >5 gm/kg). Not a skin or eye irritant. Not a skin sensitizer.

Chronic/Other - Based on animal experiments, chronic exposure at high doses of toner may cause respiratory tract irritation and lung fibrosis (4 mg/l and higher).

Additional Information - Not mutagenic in Ames test.

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SECTION 12 - ECOLOGICAL INFORMATION

LC₅₀ (fathead minnows, rainbow trout) > 1000 mg/l

SECTION 13 - DISPOSAL INFORMATION

Waste Disposal - Dispose of used product in accordance with applicable regulations. Do not incinerate.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name - None

Hazard Class - None

Identification Number - None

RQ - Not applicable

Packing Group - Not applicable

Page Number - Not applicable

SECTION 15 - REGULATORY INFORMATION

Toner ingredients not listed by California *Proposition 65*.

Toner ingredients not on the IARC, OSHA, or NTP carcinogen list.

All ingredients are on U.S. TSCA inventory.

Not listed on SARA Title III.

Not a WHMIS controlled product.

See local requirements.

SECTION 16 - OTHER INFORMATION

Disclaimer: Data is the most current known to Digital Equipment Corporation at the time of preparation and is believed to be accurate. No warranty as to its accuracy or completeness is expressed or implied.