



MATERIAL SAFETY DATA SHEET

Section 1 – Product and Company Identification

IBM Corporation
New Orchard Road
Armonk, New York 10504
U.S.A.

24 Hour Emergency Source Information:
1-800-426-4333
International Emergency Number:
303-739-1111

Product Name: Enhanced Printing Toner III
Product Trade Names and Synonyms: None
Chemical Family: Printing toner
IBM Part Number: 57P1888
IBM Material Reference Number: 940108400

MSDS Prepared By: IBM Printing Systems Division, Boulder, Colorado, USA
MSDS Preparer's Telephone Number: 1-800-426-4333

MSDS Preparation Date: 5/31/02 **MSDS Revision Date:**

Section 2 – Composition / Information on Ingredients

Component	CAS Registry Number	UN Number	Percentage
Polyester resin	343246-77-5		30-60
Polyester resin	343277-25-8		30-60
Pigment black 12	68187-02-0		5-10
C.I. solvent black 7	8005-02-5		1-5
Quaternary ammonium compound	117342-25-3		0.5-1.3
Wax	8015-86-9		1-5
Silica	199876-44-3		0.1-1
Total			100

See Section 8 for exposure limits.

Section 3 – Hazards Identification

Emergency Overview: Black fine combustible powder.

Physical Description: Black powder.

Primary Routes of Entry & Potential Health Effects:

Skin Contact: Essentially non-irritating to skin.

Eye Contact: May cause eye irritation.

Inhalation: Minimal respiratory tract irritation may occur as with exposure to large amounts of any non-toxic dust.

Ingestion: Ingestion is not an applicable route of entry for intended use.



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Carcinogen Status:

OSHA: N IARC: N NTP: N

NFPA Ratings:

Health: Flammability: Reactivity: Special Information:

Section 4 – First Aid Measures

Inhalation: Remove to fresh air. Treat any irritation symptomatically. Call a physician.

Skin Contact: Immediately wash thoroughly with soap and plenty of water.

Eye Contact: Flush eyes immediately with large amounts of water until irritation subsides. Call a physician.

Ingestion: If swallowed, wash out mouth with water. Call a physician.

Antidotes: Not available.

Note to Physician: Not available.

Section 5 – Fire Fighting Measures

Toner is combustible.

Means of Extinction: Carbon dioxide, foam, and dry chemical powder.

Protective Equipment for Fire-Fighting: Wear full protective clothing.

Special Fire Fighting Procedures: Wear positive pressure self-contained breathing apparatus.

Flash Point (Method): Not applicable (not determined).

Upper and Lower Flammable (Explosive) Limits: No data available.

Autoignition Temperature: No data available.

Hazardous Combustion Products: Not available.

Conditions of Flammability: Not available.

Section 6 – Accidental Release Measures

Procedures to be Followed in Case of Leak or Spill:

Small Leak or Spill: Sweep up and discard to a waste container.

Large Leak or Spill: Dispose of waste in accordance with applicable federal, state, and local regulations.

Section 7 – Handling and Storage

Precautions for Safe Handling: Do not contact toner with eyes, skin, or clothing. Wash thoroughly after handling. Provide adequate ventilation to avoid dust.

Conditions for Safe Storage: Keep container closed. Store in cool and dark place and keep away from heat, open flame and sparks.



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Section 8 – Exposure Controls/Personal Protection

Exposure Limits/Guidelines:

Pigment black 12, CAS number 68187-02-0

15.0 mg/m ³	OSHA PEL
10.0 mg/m ³	ACGIH TLV
Not available	PEL-TWA (NOM-010-STPS-1999)
Not available	PEL-STEL (NOM-010-STPS-1999)
Not available	PEL-C (NOM-010-STPS-1999)
Not available	IDLH

Silica, CAS number 199876-44-3

15.0 mg/m ³	OSHA PEL
10.0 mg/m ³	ACGIH TLV
Not available	PEL-TWA (NOM-010-STPS-1999)
Not available	PEL-STEL (NOM-010-STPS-1999)
Not available	PEL-C (NOM-010-STPS-1999)
Not available	IDLH

In Canada, consult local authorities for acceptable provincial values.

Engineering Controls: Use local exhaust ventilation.

Personal Protective Equipment:

Respiratory Protection: In dusty atmospheres, use an approved dust respirator.

Hand/Skin Protection: None under normal use. Under heavy exposure, wear protective clothing and gloves.

Eye Protection: None under normal use. Under heavy exposure, wear protective goggles and/or dust mask.

Other Protective Devices: None.

Section 9 – Physical and Chemical Properties

Appearance: Fine powder

Color: Black

Physical State: Solid

Odor: Faint odor

pH: Not applicable

Vapor Pressure: Not applicable

Boiling Point/Boiling Range: Not applicable

Freezing Point or Melting Point/Melting Range: Not applicable

Softening Point: ca. 120°C

Specific Gravity (H₂O=1): 1.1

Evaporation Rate: Not available

Solubility in Water: No data

Density: Not available



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Percent Volatile: Not applicable

Molecular Weight: Not available

Section 10 – Stability and Reactivity

Stability/Conditions to Avoid: Stable.

Materials to Avoid/Incompatibility: None.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Will not occur.

Section 11 – Toxicological Information

Toxicity Data:

LD50 (species and route): Not available.

LC50 (species): Not available.

Carcinogenic Effects: None.

Teratogenicity: Not available.

Mutagenicity: Negative (Ames test of Enhanced Printing Toner III is analogized from the result of a similar toner).

Other Toxic Effects on Humans: None.

Section 12 – Ecological Information

Aquatic Toxicity: No data available.

Biodegradation: No data available.

Section 13 – Disposal Considerations

Disposal Methods/Waste Disposal: Do not dump into sewers, on the ground, or into any body of water.

Observe all federal, regional, and local regulations when disposing of this substance.

Contact local waste vendors for proper disposal.

Section 14 – Transport Information

ICAO/IATA Classification: None

UN Number: None

IMO/IMDG Classification: None

Mexico/Latin America:

Regulations for Land Transportation of Hazardous Materials and Wastes:

Not available



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NOM-004-SCT2-1994: Not available

United Nations Recommendations on the Transport of Dangerous Goods:

None

North American Emergency Response Guide: Not available

United States:

Department of Transportation (DOT) Classification: None

Section 15 – Regulatory Information

Canada:

WHMIS Classification: Not WHMIS controlled.

Europe: All ingredients are listed on EINECS, ELINCS, or are exempt.

United States:

TSCA Inventory Status: Y

Section 16 – Other Information

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