# Material Safety Data Sheet

**MATERIAL SAFETY DATA SHEET**

| MSDS Number: | 195, REB E PITNEY BOWES, INC. | Issued: | June 4, 1998
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>Toner for Copiers DL250, DF250, DL355 and DF355, DL450, DL600</td>
<td>Revised:</td>
<td>April 19, 2001</td>
</tr>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

## Section I - Product Identification

| Product Name: | Toner for Copiers DL250, DF250, DL355, DF355, DL450, and DL600 |
| Product Use: | Toner for Copiers DL250, DF250, DL355, DF355, DL450, and DL600 |
| Reorder #/Model: | 371-0: DL250, DF250, DL355, DF355  
372-0: DL450, DL600 |
| Manufacturer: | Pitney Bowes, Inc. |
| Division: | Office Systems |
| Address: | Walter Wheeler Jr. Drive |
| City: | Stanford |
| State: | CT |
| Zip: | 06926-0700 |
| For MSDS copies: | 203-365-7151 |
| Emergency/Chemtrec: | 800-424-9300 |
| MSDS Prepared By: | Chemical Review Committee |
| Effective Date: | June 4, 1998 |
| Print Date: | 09/26/01 |

## Section II - Hazardous Ingredients

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS NO.</th>
<th>%</th>
<th>EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toner powder (regulated as particulates not otherwise classified - PNOC)</td>
<td>Mixture</td>
<td>Proprietary</td>
<td>10 mg/m3, TLV-TWA (inhalable), 15 mg/m3 PEL-TWA (Total Dust)</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>Proprietary</td>
<td>3.5 mg/m3 TLV-TWA, 3.5 mg/m3 PEL-TWA</td>
</tr>
<tr>
<td>Organic Pigment (Chromium Compound)</td>
<td>31714-55-3</td>
<td>Proprietary</td>
<td>0.5 mg/m3 TLV-TWA (as Cr), 0.5 mg/m3 PEL-TWA (as Cr)</td>
</tr>
</tbody>
</table>

**Additional Information**

May Contain Non-Hazardous Ingredients: Styrene Acrylate Co-polymer, Polypropylene, Organic Pigment

## Section III - Hazard Identification

**Emergency Overview:** Black powder with slight odor. High concentrations of dust suspended in air may present a dust explosion hazard. Inhalation of dust may cause minor respiratory irritation. Prolonged inhalation overexposure may result in lung damage. Skin, eyes, inhalation

**Relevant Routes of Exposure:** Skin, eyes, inhalation

**Signs and Symptoms of Acute Overexposure:** May cause mild eye irritation. No animal testing was performed with this specific product, however, based on animal testing with products of similar composition, this product is not a skin or eye irritant.

**Signs and Symptoms of Chronic Overexposure:** Prolonged inhalation of dust in excess of the exposure
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<tbody>
<tr>
<td>PITNEY BOWES, INC.</td>
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<tr>
<td>Issued Revised</td>
<td>June 4, 1998 April 19, 2001</td>
</tr>
</tbody>
</table>

## SECTION III - HAZARD IDENTIFICATION

**Overexposure:** limits (as with any nuisance dust) may result in lung damage. Overexposure to dust in the normal use of this product is not expected.

**Medical Conditions Generally Aggravated By Exposure:** None Known

**Potential Health Effects:**

- **Eyes:** May cause mild irritation.
- **Skin:** No adverse effects expected.
- **Ingestion:** May be harmful if swallowed.
- **Inhalation:** Could be a route of exposure, but unlikely under normal use. Inhalation of toner powder may cause mucous membrane and respiratory irritation. Prolonged and repeated overexposure may cause lung damage.

**Carcinogenicity:**

- **NTP:**
- **IARC:**

In 1996 IARC re-evaluated carbon black as a group 2B carcinogen (possible human carcinogen). This classification is based on results of animal studies in which rats chronically exposed by inhalation to free carbon black at concentrations that resulted in particle overloading of the lung developed lung tumors. Studies performed in other animals have not demonstrated an association between exposure to carbon black and lung tumors. A two-year inhalation cancer bioassay using a typical toner preparation containing carbon black did not result in increased lung tumors in rats. Carbon black is a minor component of this total toner mixture. We believe that IARC’s findings are not applicable to the typical uses and levels of exposure to toners or developers by our customers and service personnel.

**OSHA:**

- **No**

**ACGIH:**

- **No**

**OTHER:**

- **No**

## SECTION IV - FIRST AID MEASURES

**Eyes:** Do not rub eyes. Immediately flush with plenty of running cool to lukewarm water, holding eye lids open to assure thorough rinsing. Get medical attention if irritation persists or for foreign body in the eyes. Wash with soap and water.

**Skin:**

If swallowed, dilute with water. **DO NOT** induce vomiting unless directed to do so by medical personnel. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get medical attention.

**Inhalation:**

Remove person to fresh air. Wash nostrils, rinse
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SECTION IV - FIRST AID MEASURES
mouth. If irritation or pulmonary symptoms develop, consult a physician.

SECTION V - FIRE FIGHTING PROCEDURES
Flammable Limits in Air (% by Volume): Not determined
Flash Point: Not applicable
Autoignition Temperature: Not determined

Extinguishing Media: Water spray, CO₂, dry chemical powder, or appropriate foam.

Fire Fighting Instructions: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Do not use methods that may create a dust cloud, such as high pressure water.

Unusual Fire and Explosion Hazards: Toner powder can form explosive mixtures with air at high concentrations.
Known or Anticipated Hazardous Products of Combustion: Emits toxic fumes under fire conditions.

SECTION VI - ACCIDENTAL RELEASE MEASURES
Accidental Release Measures: Carefully sweep material onto paper, or vacuum taking care not to generate airborne dust. Do not use vacuum if large amounts are released due to risk of dust explosion.

Personal Precautions: Avoid inhalation of dust.

Environmental Precautions: It is recommended to keep away from drains, surface and ground water.

Methods for Cleanup:
Large Spill: Sweep material onto paper, or vacuum small amounts.
Small Spill: Not sold in large quantities.

SECTION VII - HANDLING AND STORAGE
Handling: Avoid inhalation of toner dust. Avoid direct contact with toner. Keep container closed when not in use.


Other Precautions: Not required under normal use.
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SECTION VIII - EXPOSURE CONTROLS & PERSONAL PROTECTION

Engineering Controls: None required with normal use.
Ventilation Requirements: General office ventilation.
Personal Protective Equipment:
  Eye/Face Protection: Not required under normal use.
  Skin Protection: Not required under normal use.
  Respiratory Protection: Not required under normal use.
  Other Protective
  Clothing or Equipment: Not required under normal use.
  Exposure Guidelines: See Section II

SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

Appearance: Black powder with slight odor
Boiling Point: Not applicable
Color: Black
Freezing Point: No data
Melting Point: 140°C
Octanol/Water Partition Coefficient: No data
Odor: Slight odor
Odor Threshold: No data
Percent Volatile: Not applicable
pH Value: Not applicable
pH Concentration: Not applicable
Physical State: Powder
Reactivity in Water: None
Solubility in Water: Not soluble
Specific Gravity or Density (Water=1): 1.1
Vapor Density: Not applicable
Vapor Pressure: Not applicable
Vapor Pressure Temperature: Not applicable
Volatile Organic Compounds: No data
Water/Oil Distribution Coefficient: Not applicable
Weight Per Gallon: Not applicable

SECTION X - STABILITY AND REACTIVITY

Stability: Stable
  Conditions to Avoid: Avoid excessive heat and electrical discharge. Do not throw into fire.
Incompatibility With Other Materials: Strong oxidizing materials
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SECTION X - STABILITY AND REACTIVITY
Hazardous Decomposition: Combustion will produce carbon dioxide, carbon
Products: monoxide, unidentified compounds.
Hazardous Polymerization: Will not occur
Conditions to Avoid: Not applicable

SECTION XI - TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>VALUE</th>
<th>ANIMAL</th>
<th>ROUTES</th>
<th>COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50:</td>
<td>Not applicable</td>
<td>Inhalation</td>
<td>Product</td>
</tr>
<tr>
<td>LD50:</td>
<td>Not applicable</td>
<td>Oral</td>
<td>Product</td>
</tr>
<tr>
<td>LD50:</td>
<td>Not applicable</td>
<td>Dermal</td>
<td>Product</td>
</tr>
</tbody>
</table>

Additional Information

Negative in Ames tests

Note: No animal testing was performed with this specific product.

SECTION XII - ECOLOGICAL INFORMATION

Ecological Information: No data available

SECTION XIII - DISPOSAL CONSIDERATIONS

Disposal Considerations: Dispose in accordance with local, state, and federal
regulations. Do not incinerate toner and toner
containers. Dangerous sparks may cause burns or fires.

SECTION XIV - TRANSPORT INFORMATION

**U.S. DOT**

Proper Shipping Name: Not regulated
Hazard Class: Not applicable
ID Number: Not applicable
Packing Group: Not applicable
Labels: None
Special Provisions: None
Packaging Exceptions: Not applicable
Non-Bulk Packaging: Not applicable
Bulk Packaging: Not applicable
Air/Rail Limit: None
Air Cargo Limit: None
Vessel Stowage: Not applicable
Other Stowage: Not applicable
Reportable Quantity: None

AIR - ICAO OR IATA
SECTION XIV - TRANSPORT INFORMATION
Proper Shipping Name: Not regulated
Hazard Class: Not applicable
ID Number: Not applicable
Risk: Not applicable
Packing Group: Not applicable
Hazard Labels: None
Packing Instructions: Not applicable
Air Passenger/Cargo Limit Per Package: Not applicable
Package: Not applicable
Packing Instruction - Cargo: Not applicable
Air Cargo Limit Per Package: Not applicable
Special Provisions Code: None

WATER - IMDG
Proper Shipping Name: Not regulated
Hazard Class: Not applicable
ID Number: Not applicable
Packing Group: Not applicable
Risk: Not applicable
Emergency Procedures Code: Not applicable
Medical First Aid Guide Code: Not applicable

SECTION XV - REGULATORY INFORMATION
U.S. Federal Regulations: See below
State Regulations: None applicable
International Regulations: Canada: Not a controlled product. EU: Not a dangerous preparation.

SARA Hazards:
Acute: No
Chronic: No
Reactive: No
Fire: No
Pressure: No

Additional Information
This product does not contain chemical or chemical compounds listed in the following SARA Title III categories: Extremely Hazardous Substances (302).
SARA 313 (Toxic Chemical Release Reporting): This product contains the following chemicals subject to reporting: Chromium Compound <5%

All the components of this product are listed in the EPA TSCA Inventory.

SECTION XVI - OTHER INFORMATION
NFPA Codes:
SECTION XVI - OTHER INFORMATION

Health: 1
Flammability: 1
Reactivity: 0
Other: 0

HMIS Codes:
Health: 1
Flammability: 1
Reactivity: 0
Protection: 

Other Information: Keep out of reach of children