



## SAFETY DATA SHEET

|                      |                                  |                        |                   |
|----------------------|----------------------------------|------------------------|-------------------|
| <b>SDS Number:</b>   | 383, REV A<br>PITNEY BOWES, INC. | <b>Effective Date:</b> | February 12, 2016 |
| <b>Product Name:</b> | Pitney Bowes Toner Cartridges    | <b>Revised Date:</b>   | N/A               |
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### 2.2 Label Elements:

#### Warning!

May form combustible dust concentrations in air.

### 2.3 Other Hazards: None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures:

| Chemical Name      | CAS#        | EINECS#     | GHS Classification<br>Regulation (EC) No 1272/2008 | %       |
|--------------------|-------------|-------------|--|---------|
| Toner Powder       | Mixture     | Mixture     | Not Applicable                                     | 50-<80  |
| Iron Oxide         | 1317-61-9   | 215-277-5   | Not Applicable                                     | 25 – 50 |
| Chromate compounds | Proprietary | Proprietary | Not Applicable                                     | <2.5    |
| Zinc Stearate      | 557-05-1    | 209-151-9   | Acute Aquatic Toxicity Category 1<br>(H400)        | <2.5    |

See Section 16 for further information on GHS Classification.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

**Eyes:** Do not rub eyes. 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.

**Skin:** Wash with soap and water.

**Inhalation:** Remove to fresh air. Wash nostrils, rinse mouth. If irritation or pulmonary symptoms develop, consult a physician.

**Ingestion:** If swallowed, dilute with water. Do not induce vomiting unless directed to do so by a doctor or physician. Get medical attention if symptoms occur.

**Notes to Physicians:** Treat symptomatically.

**4.2 Most Important symptoms and effects, both acute and delayed:** Inhalation of dust may cause minor respiratory irritation. Prolonged inhalation overexposure may result in lung damage. May cause mild eye irritation.

**4.3 Indication of any immediate medical attention and special treatment needed:**  
Immediate medical treatment should not be required.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 Extinguishing Media:

Use water spray, dry chemical or foam to extinguish fire. Do not use high pressure water jet or stream.

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### 5.2 Special Hazards Arising from the Substance or Mixture

**Unusual Fire and Explosion Hazards:** Toner powder can form explosive mixtures with air at high concentrations.

**Hazardous Decomposition Products:** May produce carbon, nitrogen and zinc oxides under fire conditions.

### 5.3 Advice for Fire-Fighters:

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.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid inhalation of dust. Carefully sweep up material, or vacuum taking care not to generate airborne dust. Do not use vacuum if large amounts are released due to risk of dust explosion. Wipe up residual with a damp cloth.

### 6.2 Environmental Precautions:

Keep away from drains, surface and ground water.

### 6.3 Methods and Material for Containment and Cleaning Up:

Large Spill: Not sold in large quantities. Do not use vacuum if large amounts are present due to risk of dust explosion. Collect in a manner that does not generate airborne dust.  
Small Spill: Sweep up, or vacuum small amounts of material.

### 6.4 Reference to Other Sections:

Refer to Section 8 for protective equipment and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling:

Avoid inhalation of toner dust. Avoid direct contact with toner. Follow product label instructions.

### 7.2 Conditions for Safe Storage, Including any Incompatibilities:

Store in a cool, dry place. Keep out of the reach of children.

### 7.3 Specific end use(s):

Copier Toner Cartridge

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters:

| Chemical Name  | Exposure Limits   |
|--|---|
| Toner powder (regulated as particulates not otherwise classified - PNOC) | 5 mg/m <sup>3</sup> (respirable fraction ) TWA OSHA PEL<br>15 mg/m <sup>3</sup> TWA (total dust) TWA OSHA PEL |

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|                    |  |
|--------------------|--|
|                    | 5 mg/m <sup>3</sup> (respirable fraction ) TWA – France OEL  |
| Iron Oxide         | 10 mg/m <sup>3</sup> TWA OSHA PEL (as iron oxide fume)<br>5 mg/m <sup>3</sup> TWA ACGIH TLV (respirable fraction)<br>5 mg/m <sup>3</sup> TWA UK WEL (respirable);<br>10 mg/m <sup>3</sup> TWA UK WEL (inhalable)   |
| Chromate compounds | 0.5 mg/m <sup>3</sup> TWA OSHA PEL (as Chromium metal)<br>0.5 mg/m <sup>3</sup> TWA ACGIH TLV (as Chromium metal)<br>0.5 mg/m <sup>3</sup> TWA – Australia OEL<br>(as Chromium metal)  |
| Zinc Stearate      | 5 mg/m <sup>3</sup> (respirable fraction ) TWA OSHA PEL<br>15 mg/m <sup>3</sup> TWA (total dust) TWA OSHA PEL<br>10 mg/m <sup>3</sup> TWA ACGIH TLV<br>0.1 mg/m <sup>3</sup> TWA DFG MAK (respirable)<br>2 mg/m <sup>3</sup> TWA DFG MAK (inhalable)<br>5 mg/m <sup>3</sup> (respirable fraction ) TWA – France OEL<br>10 mg/m <sup>3</sup> TWA UK WEL, 20 mg/m <sup>3</sup> STEL<br>(inhalable)<br>4 mg/m <sup>3</sup> TWA UK WEL (respirable dust) |

### 8.2 Exposure Controls:

**Engineering Controls:** None required with normal use.

**Respiratory Protection:** Not required under normal use conditions.

**Skin Protection:** Not required under normal use conditions.

**Eye Protection:** Not required under normal use conditions.

**Other:** Not required for normal use conditions.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic Physical and Chemical Properties:

|   |  |
|---|--|
| <b>Appearance:</b> Black or colored powder in a cartridge.          | <b>Vapor Density:</b> Not applicable   |
| <b>Odor:</b> Slight or no odor.                                     | <b>Specific Gravity:</b> Not determined  |
| <b>Odor Threshold:</b> Not determined                               | <b>Water Solubility:</b> Negligible  |
| <b>pH:</b> Not applicable   | <b>Octanol/Water Partition Coefficient:</b><br>Not available   |
| <b>Melting Point/Freezing Point:</b><br>Not determined.             | <b>Autoignition Temperature:</b><br>Not applicable   |
| <b>Boiling Point and Range:</b> Not applicable                      | <b>Decomposition Temperature:</b><br>Not determined  |
| <b>Flash Point:</b> None  | <b>Viscosity:</b> Not applicable   |
| <b>Evaporation Rate:</b> Not applicable                             | <b>Explosion Properties:</b> Toner powder can form explosive mixtures with air at high concentrations. |
| <b>Flammable Limits:</b> LEL: Not determined<br>UEL: Not determined | <b>Flammability (Solid, Gas):</b> Combustible dust   |
| <b>Oxidizing Properties:</b> Not determined                         | <b>Vapor Pressure:</b> Not applicable  |
| <b>VOC:</b> Not available   |  |

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### 9.2 Other Information:

None

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

Not reactive under normal conditions of use.

### 10.2 Chemical Stability:

Stable.

### 10.3 Possibility of Hazardous Reactions:

May form combustible dust concentrations in air.

### 10.4 Conditions to Avoid:

Avoid excessive heat. Avoid ignition sources in the presence of airborne dusts.

### 10.5 Incompatible Materials:

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous Decomposition Products:

Thermal decomposition may produce carbon, nitrogen and zinc oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

**Eyes:** May cause minimal irritation.

**Skin:** No adverse effects expected.

**Ingestion:** No adverse effects expected. This product is not acutely toxic by ingestion.

**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.

### Acute Toxicity Values:

Iron Oxide: LD50 Oral Rat > 10,000 mg/kg

Zinc Stearate: LD50 Oral Rat > 5,000 mg/kg

LD50 Skin Rabbit > 2,000 mg/kg

**Irritation:** May cause mild eye irritation.

**Corrosivity:** This is not a corrosive product.

**Sensitization:** This product is not expected to cause sensitization. None of the components are respiratory or skin sensitizers.

### Specific Target Organ Toxicity:

Single Exposure: None known.

Repeat Exposure: In a study in rats of chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16

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mg/m<sup>3</sup>) exposure group. A minimal to mild degree of lung fibrosis was observed in 22% of the rats in the middle (4 mg/m<sup>3</sup>) exposure group. No pulmonary change was reported in the lowest (1 mg/m<sup>3</sup>) exposure group, the most relevant level to potential human exposures.

**Carcinogen Status:** None of the components of this product at greater than 0.1% are classified as carcinogens by IARC, OSHA, NTP, ACGIH, or the EU CLP.

**Germ Cell Mutagenicity:** This product is not expected to be a mutagen.

**Toxicity for Reproduction:** This product is not a reproductive hazard.

### SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity:**

Zinc Stearate: LC50 Brachydanio rerio (Zebra Fish) >100 mg/L/ 96 hr.  
EC50 Daphnia Magna: 0.76 mg/L/48 hr.

**12.2 Persistence and Degradability:**

No data available for product.  
Zinc Stearate is not readily biodegradable in water.

**12.3 Bioaccumulative Potential:**

No data available for product.  
Zinc Stearate: Is not expected to bio-accumulate in the food chain. BCF 3.162

**12.4 Mobility in Soil:**

No data available for product.

**12.5 Results of PBT and vPvB Assessment:**

Not required.

**12.6 Other Adverse Effects:**

None.

### SECTION 13: DISPOSAL INFORMATION

**13.1 Waste Treatment Methods**

Dispose in accordance with local, state or provincial and federal or national regulations.

### SECTION 14: TRANSPORT INFORMATION

|               | <b>14.1 UN Number</b> | <b>14.2 UN Proper Shipping Name</b> | <b>14.3 Transport Hazard Class(s)</b> | <b>14.4 Packing Group</b> | <b>14.5 Environmental Hazards</b> |
|---------------|-----------------------|-------------------------------------|---------------------------------------|---------------------------|-----------------------------------|
| <b>US DOT</b> | None                  | Not regulated for transport         | None                                  | None                      | No                                |

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|                   |      |                             |      |      |    |
|-------------------|------|-----------------------------|------|------|----|
| <b>EU ADR/RID</b> | None | Not regulated for transport | None | None | No |
| <b>IATA:</b>      | None | Not regulated for transport | None | None | No |
| <b>IMDG</b>       | None | Not regulated for transport | None | None | No |

**14.6 Special Precautions for User:**

None

**14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:**

Not applicable

### SECTION 15: REGULATORY INFORMATION

**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:**

**International Inventories:**

**US EPA TSCA Inventory:** All of the components are listed or exempt on the EPA TSCA inventory.

**U.S. REGULATIONS**

**CERCLA:** Spills of this product are not required to be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**EPA SARA 302:** This product does not contain chemicals regulated under SARA Section 302.

**EPA SARA 311 Hazard Classification:** Fire Hazard

**EPA SARA 313:** This product contains the following chemicals that are regulated under SARA Title III, section 313: Zinc Stearate CAS# 557-05-1  
(as zinc compounds) at <2.5%

**California Proposition 65:** This product contains the following chemicals which are known to the State of California to cause cancer, reproductive toxicity or birth defects: None.

**INTERNATIONAL REGULATIONS**

**German WGK:** Not determined.

**15.2 Chemical Safety Assessment:**

Not required

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### SECTION 16: OTHER INFORMATION

**NFPA Codes:**      **Health: 1**      **Fire: 2**      **Instability: 0**  
**HIMS Codes:**      **Health: 1**      **Fire: 2**      **Physical Hazard: 0**

**GHS Phrases for Reference (See Section 2 and 3):**

H400 Very toxic to aquatic life.

**SDS Prepared By:**                      Chemical Review Board      February 22, 2016

**Date Revised:**

New SDS

**Revision Summary:**                      Emergency spill information number updated in November 2020

**Previous Revision:**                      N/A