SAFETY DATA SHEET

SDS Number:	309, REV C PITNEY BOWES, INC.	**Effective Date:** **Revised Date:**	December 6, 2010 February 22, 2016
Product Name:	Pitney Bowes Toner Cartridges	**Page:**	1 of 7

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name: Pitney Bowes Toner Cartridge
Reorder Number: HP3-6, W65-D, HP3-7

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Copier Toner Cartridge

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer:

US Facility:
Pitney Bowes Inc.
27 Waterview Drive
MSC 27-3C
Shelton, CT 006484
United States

UK Facility:
Building 5 Trident Place
Hatfield Business Park
Mosquito Way
Hatfield
Hertfordshire, AL10 9UJ
United Kingdom

Canada Distributer:
Pitney Bowes Ltd.
5500 Explorer Drive
Mississauga,
Ontario L4W 5C7
Canada

Information Phone Number:
800-243-7824

+44(0) 8705 252 525

905-619-7861

E-mail: ehs@pb.com

SDS website: www.PB.com/SDS

1.4 Emergency Telephone Number

Emergency Spill Information	203-922 5340 *North America*	00-1-203-922 5340 *International*

SDS Date of Preparation: February 22, 2016

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008):

Physical:	Health:	Environmental
Non-Hazardous	Non-Hazardous	Non-Hazardous

OSHA HazCom2012: Combustible dust.

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 Regulation (EC) No 1272/2008	%
Toner Powder	Mixture	Mixture	Not Applicable	99-<100
Zinc Stearate	557-05-1	209-151-9	Acute Aquatic Toxicity Category 1 (H400)	<1.0

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. 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.
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. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. 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.

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.

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:
It is recommended to 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.
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/m3 (respirable fraction) TWA OSHA PEL 15 mg/m3 TWA (total dust) TWA OSHA PEL 5 mg/m3 (respirable fraction) TWA – France OEL
Zinc Stearate	5 mg/m3 (respirable fraction) TWA OSHA PEL 15 mg/m3 TWA (total dust) TWA OSHA PEL

	10 mg/m3 TWA ACGIH TLV 0.1 mg/m3 TWA DFG MAK (respirable) 2 mg/m3 TWA DFG MAK (inhalable) 5 mg/m3 (respirable fraction) TWA – France OEL 10 mg/m3 TWA UK WEL, 20 mg/m3 STEL (inhalable) 4 mg/m3 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:

Appearance: Black or colored powder	**Vapor Density:** Not applicable
Odor: Slight or no odor.	**Specific Gravity:** 1.0 – 1.5
Odor Threshold: Not determined	**Water Solubility:** Negligible
pH: Not applicable	**Octanol/Water Partition Coefficient:** Not available
Melting Point/Freezing Point: Not determined.	**Autoignition Temperature:** Not applicable
Boiling Point and Range: Not applicable	**Decomposition Temperature:** Not determined
Flash Point: None	**Viscosity:** Not applicable
Evaporation Rate: Not applicable	**Explosion Properties:** Toner powder can form explosive mixtures with air at high concentrations.
Flammable Limits: LEL: Not determined UEL: Not determined	**Flammability (Solid, Gas):** Non-Flammable solid.
Oxidizing Properties: Not determined	**Vapor Pressure:** Not applicable
VOC: Not available	

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:
None known

10.4 Conditions to Avoid:
Avoid excessive heat.

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:

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 mg/m3) exposure group. A minimal to mild degree of lung fibrosis was observed in 22% of the rats in the middle (4 mg/m3) exposure group. No pulmonary change was reported in the lowest (1 mg/m3) 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 Regulations.

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

	14.1 UN Number	**14.2 UN Proper Shipping Name**	**14.3 Transport Hazard Class(s)**	**14.4 Packing Group**	**14.5 Environmental Hazards**
US DOT	None	Not regulated for transport	None	None	No
EU ADR/RID	None	Not regulated for transport	None	None	No
IATA:	None	Not regulated for transport	None	None	No
IMDG	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 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 <1%
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

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
Date Revised: February 22, 2016

Revision Summary: Update and change Section 15. Remove EU & WHMIS Statements. Emergency spill information number updated in November 2020

Previous Revision: November 17, 2014