SAFETY DATA SHEET

SDS Number:	327, REV D PITNEY BOWES INC.	**Effective Date:** **Revised Date:**	January 23, 2013 November 20, 2017
Product Identifier:	43E-4, 43D-4	**Page:**	1 of 8

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

1.1 Product Identifier

Reorder Numbers: 43E-4, 43D-4

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

Product Use: Yellow Toner

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer:

US Facility:	**UK Facility:**	**Canada Distributer:**
Pitney Bowes Inc. 27 Waterview Drive Shelton, CT 006484 United States	Building 5 Trident Place Hatfield Business Park Mosquito Way Hatfield Hertfordshire, AL10 9UJ United Kingdom	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: November 20, 2017

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008): Not classified as hazardous.

OSHA HazCom2012: Combustible dust.

2.2 Label Elements:

Warning!

Hazard Phrases:

	May form combustible dust concentrations in air.

Precautionary Phrases: None

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	Balance
Titanium Dioxide*	13463-67-7	236-675-5	Carcinogen Category 2 (H351)	<1

*The titanium dioxide in this product are inextricably bound within a polymer matrix and will not present a risk of exposure.
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 cold water for several minutes, holding eyelids open to assure thorough rinsing. Get medical attention if irritation develops or persists.
Skin: Wash with soap and water.
Inhalation: Remove to fresh air. Get medical attention if irritation develops or persists.
Ingestion: 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. Product is self-contained within a cartridge and exposure is unlikely.

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, carbon dioxide, 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 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:

Keep away from excessive heat and cold. Keep out of the reach of children.

7.3 Specific end use(s):

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) United States Germany (as respirable dust) Spain (as respirable dust)	 5 mg/m3 (respirable fraction) TWA OSHA PEL 15 mg/m3 TWA (total dust) TWA OSHA PEL 1.5 mg/m3 TWA – DFG MAK 3 mg/m3 TWA – Spain OEL
Titanium Dioxide United States Australia	 15 mg/m3 TWA OSHA PEL (Total dust) 10 mg/m3 TWA ACGIH TLV, 10 mg/m3 TWA – Australia OEL

Spain	10 mg/m3 TWA – Spain OEL (inhalable aerosol)
United Kingdom	10 mg/m3 TWA - UK WEL (inhalable aerosol) 4 mg/m3 TWA - UK WEL (respirable aerosol)

Refer to local regulations for occupational exposure limits not listed above.

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: Yellow powder contained within a cartridge.	**Vapor Density:** Not applicable
Odor: Slight plastic odor	**Specific Gravity:** 1.2 @ 25°C
Odor Threshold: Not determined	**Water Solubility:** Insoluble
pH: Not applicable	**Octanol/Water Partition Coefficient:** Not available
Melting Point/Freezing Point: 110°C (230°F) (Softening Point)	**Autoignition Temperature:** > 300 °C (> 572 °F)
Boiling Point: 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	**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:

None known.

10.5 Incompatible Materials:
Avoid strong oxidizers, acids, and strong bases.

10.6 Hazardous Decomposition Products:
Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:
Eyes: May cause mild eye irritation.
Skin: May cause mild skin irritation.
Ingestion: Swallowing large amounts may cause abdominal pain, headache, dizziness, drowsiness, nausea, vomiting and diarrhea.
Inhalation: No adverse effects expected under normal use. High vapor concentrations due to heating may cause upper respiratory tract irritation with possible headache, dizziness, drowsiness, and nausea.

Acute Toxicity Values:

Product	Not acutely toxic		
Toner powder	Not acutely toxic		
Titanium Dioxide	LD50: >10,000 mg/kg LD50: >10,000 mg/kg	Rat Rabbit	Oral Skin

Irritation: Non-irritating to eyes and skin.

Corrosivity: This is not a corrosive product.

Sensitization: This product is not expected to cause sensitization.

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 (4mg/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: IARC has classified titanium dioxide as group 2B carcinogen (possible human carcinogen). The titanium dioxide in this product is inextricably bound within a polymer matrix and will not present a risk of exposure. None of the other 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. Does not contain substances listed as hazardous to reproductive health.

Aspiration Hazard: This product is not an aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:
No data available for product.

12.2 Persistence and Degradability:
No data available for product.

12.3 Bioaccumulative Potential:
No data available for product.

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

International Inventories:
US EPA TSCA Inventory: All the components of this product are listed in the EPA TSCA Inventory.
Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List (DSL). Toner cartridges are exempt.

Australian Regulations: All of the components are listed in the AICS inventory.
Japanese Regulations: All of the ingredients of this product are listed on the Japanese inventory.
Korean Regulations: All of the components of this product are listed on the Korean Existing Chemical List (KECL).
Philippine Regulations: All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).
New Zealand Regulations: All of the components of this product are listed on the New Zealand Inventory of Chemicals (NZloC). Toner cartridges are exempt.
Taiwan Regulations: All of the components of this product are listed on the Taiwan Chemical Substance Inventory (TCSI).

U.S. REGULATIONS
CERCLA: Spills of this product are 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: As per OSHA GHS classification in Section 2 of this SDS.
EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313: None.

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: Titanium Dioxide <1%.

INTERNATIONAL REGULATIONS

German WGK: Not determined.

Other EU Regulations: This product is classified and labeled in accordance with EC CLP. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 (REACH). Classification is based on either test data or the calculation method.

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):
H351 Suspected of causing cancer.

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SDS Prepared By: Chemical Review Team (CRT)