



SAFETY DATA SHEET

SDS Number:	349, REV B PITNEY BOWES, INC.	Effective Date:	November 17, 2014
		Revised Date:	February 12, 2016
Product Name:	Pitney Bowes Toner Cartridges	Page:	1 of 10

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

1.1 Product Identifier

Trade Name: Pitney Bowes Toner Cartridge
Reorder Number: BR3-S, BR3-T, BR3-U, BR3-V

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
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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 <i>North America</i>	00-1-203-922 5340 <i>International</i>
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SDS Date of Preparation: February 12, 2016

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008):

Physical:	Health:	Environmental
Non-Hazardous	Eye Corrosion Category 1 Respiratory Sensitizer Category 1 Skin Sensitizer Category 1	Non-Hazardous

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OSHA HazCom2012: Combustible dust.

2.2 Label Elements:



DANGER!

Hazard Phrases:

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	May form combustible dust concentrations in air.

Precautionary Phrases

P261	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves, and eye protection.
P284	In case of inadequate ventilation, wear respiratory protection.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P304 + P340	IF INHALED: remove person to fresh air and keep comfortable for breathing.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P363	Wash contaminated clothing before reuse.
P501	Dispose of container and contents to approved disposal site in accordance with all local and national regulations.

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	%
Propylene Glycol	57-55-6	200-338-0	Not Applicable	20 - 40

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Non-hazardous ingredients	Mixture	Mixture	Not Applicable	15 - 35
Dymethyl terephthalate	120-61-6	204-411-8	Not Applicable	10 - 25
Dymethyl Isophthalate	1459-93-4	215-951-9	Eye Irrit. 2 (H319)	10 - 25
Ahydro Trimellitic Acid	552-30-7	209-008-0	Eye Corr. 1 (H318) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) STOT SE 3 Irrit. (H335)	5 - 10
Paraffin Wax	8002-74-2	232-315-6	Not Applicable	5 - 10
UV Stabilizer	3896-11-5	223-445-4	Aqua. Chron. 4 (H413)	1 - 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. Immediately flush with plenty of running cool to lukewarm water for 20 minutes, holding eye lids open to assure thorough rinsing. Get immediate medical attention.

Skin: Wash with soap and water.

Inhalation: Remove to fresh air. Wash nostrils, rinse mouth. Get immediate medical attention if symptoms or difficulty breathing persist.

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: Contact causes severe eye irritation with possible eye damage. Inhalation of dust may cause respiratory irritation and allergic reaction. Asthmatic response may cause difficulty breathing and may be harmful or fatal. May cause an allergic skin reaction in sensitive individuals.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is required for eye contact, and signs of allergic reactions by inhalation or difficulty breathing.

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 oxides under fire conditions.

5.3 Advice for Fire-Fighters:

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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
Propylene Glycol	10 mg/m ³ TWA AIHA WEELs 10 mg/m ³ TWA Australia OEL 10 mg/m ³ TWA UK WEL
Non-hazardous ingredients (regulated as particulates not otherwise classified – PNOC)	5 mg/m ³ (respirable fraction) TWA OSHA PEL 15 mg/m ³ TWA (total dust) TWA OSHA PEL 5 mg/m ³ (respirable fraction) TWA – France OEL
Dymethyl terephthalate	5 mg/m ³ TWA AIHA WEELs (total dust)
Dymethyl Isophthalate	None established
Ahydro Trimellitic Acid	0.0005 mg/kg TWA ACGIH TLV (Inhalable fraction) 0.002 mg/kg STEL ACGIH TLV (Inhalable fraction) 0.005 ppm TWA Australia OEL 0.005 ppm TWA – France OEL

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	0.4 mg/m ³ STEL DFG MAK 0.04 mg/m ³ TWA UK WEL, 0.12 mg/m ³ STEL
Paraffin Wax	2 mg/kg TWA ACGIH TLV 10 mg/m ³ TWA Australia OEL 2 mg/m ³ TWA – France OEL 2 mg/m ³ TWA UK WEL, 6 mg/m ³ STEL
UV Stabilizer	None established

8.2 Exposure Controls:

Engineering Controls: General room ventilation will be adequate for normal use.

Respiratory Protection: Not required under normal use conditions. Where exposure levels are exceeded, a NIOSH approved respirator with organic vapor/dust/mist cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Skin Protection: Not required under normal use conditions. Use protective gloves if skin contact is expected.

Eye Protection: Wear safety glasses or goggles when eye contact is possible.

Other: Not required for normal use conditions. For industrial settings: Use personal protective equipment as required.

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: 1.3 – 1.8
Odor Threshold: Not determined	Water Solubility: Negligible
pH: Not applicable	Octanol/Water Partition Coefficient: Not available
Melting Point/Freezing Point: 212-302°F (100-150°C)	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

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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 and nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Eyes: Contact causes severe eye irritation with possible eye damage.

Skin: May cause an allergic skin reaction in sensitive individuals.

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, respiratory irritation, and allergic reaction.

Asthmatic response may cause difficulty breathing and may be harmful or fatal. Prolonged and repeated overexposure may cause lung damage.

Acute Toxicity Values:

Propylene Glycol:	LD50 Oral Rat 20,000 mg/kg LD50 Skin Rabbit 20,800 mg/kg
Dymethyl terephthalate:	LD50 Oral Rat 3,200 mg/kg LD50 Skin Guniea pig >2,000 mg/kg
Dymethyl Isophthalate:	LD50 Oral Rat > 2,000 mg/kg LD50 Skin Rat >2,000 mg/kg
Ahydro Trimellitic Acid:	LD50 Oral Rat 2,730 mg/kg LD50 Skin Rabbit >2,000 mg/kg LC50 Inhalation Rat >2.33 mg/L air /4 hr.
Paraffin Wax:	LD50 Oral Rat > 5,000 mg/kg LD50 Skin Rat >2,000 mg/kg
UV Stabilizer:	LD50 Oral Rat > 2,000 mg/kg LD50 Skin Rat >2,000 mg/kg

Irritation: Contact causes severe eye irritation with possible eye damage.

Corrosivity: This is not a corrosive product.

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Sensitization: This product can cause sensitization. Ahydro Trimellitic Acid is a respiratory and 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 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:

No data available for product.

Propylene Glycol: LC50: Pimephales promelas (Fathead minnow) 34,060 mg/L/96 hr.
LC50: Daphnia magna >1000 mg/L /48 hr.

Dymethyl terephthalate:
LC50 Brachydanio rerio (Zebra Fish) 13 mg/L/ 96 hr.
EC50: Daphnia Magna: 61.5 mg/L/48 hr.

Dymethyl Isophthalate:
LC50: Oncorhynchus mykiss 21.6 mg/L/96 hr.
EC50: Daphnia Magna: 50 mg/L/48 hr.

Ahydro Trimellitic Acid:
EC50: Daphnia magna > 792 mg/L/48 hr.

Paraffin Wax: LL50: Oncorhynchus mykiss >1,000 mg/L/96 hr.
EL50: Daphnia Magna: >10,000 mg/L/48 hr.

UV Stabilizer: LC50 Brachydanio rerio (Zebra Fish) >100 mg/L/ 96 hr.
EL50: Daphnia Magna: >=100 mg/L/48 hr.

12.2 Persistence and Degradability:

No data available for product.

Propylene Glycol: Propylene glycol achieved 64% of its theoretical BOD using a sewage inoculum and a 5 day incubation period.

Dymethyl terephthalate: Readily biodegradable.

Dymethyl Isophthalate: Readily biodegradable.

UV Stabilizer: 10 - 20% Degradation in 28 days.

12.3 Bioaccumulative Potential:

No data available for product.

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Propylene Glycol: BCF 3 suggests the potential for bioconcentration in aquatic organisms is low.
 UV Stabilizer: BCF: 3.01 - 3.18

12.4 Mobility in Soil:

No data available for product.
 Propylene Glycol: Is expected to have very high mobility in soil
 Dymethyl terephthalate: Is expected to have moderate mobility in soil.
 Dymethyl Isophthalate: Is expected to have very high mobility in soil

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:

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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: 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: None.

INTERNATIONAL REGULATIONS

German WGK: Not determined.

15.2 Chemical Safety Assessment:
Not required

SECTION 16: OTHER INFORMATION

NFPA Codes: **Health: 3** **Fire: 2** **Instability: 0**
HIMS Codes: **Health: 3** **Fire: 2** **Physical Hazard: 0**

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

Aqua. Chron. 4 - Chronic Aquatic Toxicity Category 4

Eye Corr. 1 – Eye Corrosion Category 1

Eye Irrit. 2 – Skin Irritant Category 2

Resp. Sens. 1 – Respiratory Sensitizer Category 1

Skin Sens. 1 – Skin Sensitizer Category 1

STOT SE 3 Irrit. – Specific Target Organ Toxicity: Single Exposure Category 3 (Irritation)

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H413 May cause long lasting harmful effects to aquatic life.

SDS Prepared By: Chemical Review Board

Date Revised: February 12, 2016

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

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