

SAFETY DATA SHEET

SDS Number:	408, REV A PITNEY BOWES, INC.	Effective Date:	May 1, 2019
		Revised Date:	N/A
Product Name:	Black Toner Cartridge (TN-620, TN-650, TN-3230, TN-3235, TN-3250, TN-3280, TN-3285 TN-3290)	Page:	2 of 9

2.2 Label Elements:

Warning!

May form combustible dust concentrations in air.

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical Name	CAS#	EINECS# / REACH Reg No.	GHS Classification Regulation (EC) No 1272/2008	%
Toner Powder	Proprietary	Proprietary	Not Applicable	90-95
Carbon Black*	1333-86-4	215-609-9	Carcinogen Category 2 (H351)	5-10
Silicon Dioxide (amorphous)	7631-86-9	231-545-4	Not Applicable	<1

*The carbon black in this product is 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. 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. If irritation or pulmonary symptoms develop, consult a physician.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by a doctor or physician. Rinse mouth. 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, carbon dioxide, dry chemical or foam to extinguish fire.

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5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: None known.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, and nitrogen oxides.

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 jet.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid contact with eyes, skin and clothing. 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/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

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Carbon Black*	3.5 mg/m ³ TWA OSHA PEL 3.5 mg/m ³ TWA ACGIH TLV, 3.5 mg/m ³ TWA, 7 mg/m ³ STEL- UK WEL 3.5 mg/m ³ TWA – Spain OEL 3.0 mg/m ³ TWA – Australia OEL
Silicon Dioxide (amorphous)	<u>80 mg/m³</u> OSHA PEL %SiO ₂ 6 mg/m ³ TWA UK WEL (inhalable) 2.4 mg/m ³ TWA UK WEL (respirable) 4 mg/m ³ TWA – German MAK (inhalable) 2.0 mg/m ³ TWA – Australia OEL

*The carbon black in this product is inextricably bound within a polymer matrix and will not present a risk of exposure.

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: Cartridge containing a black powder.	Vapor Density: Not applicable
Odor: No odor	Specific Gravity: 1.15
Odor Threshold: Not applicable	Water Solubility: Insoluble
pH: Not applicable	Octanol/Water Partition Coefficient: Not determined
Melting Point/Freezing Point: 110°C (230°F)	Autoignition Temperature: Not determined
Boiling Point: Not applicable	Decomposition Temperature: Not determined
Flash Point: Not applicable	Viscosity: Not determined
Evaporation Rate: Not applicable	Explosion Properties: Toner powder can form explosive mixtures with air at high concentrations.
Flammability: Non-Flammable solid.	Oxidizing Properties: Not determined
Flammable Limits: LEL: 85-90 g/m ³ UEL: Not determined	VOC: Not determined
Vapor Pressure: Not applicable	

9.2 Other Information:

None

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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 and strong bases.

10.6 Hazardous Decomposition Products:

Carbon dioxide, carbon monoxide, and nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Eyes: May cause minimal irritation.

Skin: Non-irritant.

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:

Product ATE:	LD50: >2,000 mg/kg (OECD #420)	Oral
	LC50: >5.3 mg/l (OECD #403)	Inhalation
Carbon Black	LD50: >15,400 mg/kg	Rat Oral
	LD50: >2,000 mg/kg	Rabbit Dermal
Silicon Dioxide (amorphous)	LD50: >5,000 mg/kg	Rat Oral
	LD50: >5,000 mg/kg	Rabbit Dermal

Irritation: This product is not expected to cause eye or skin irritation based on animal studies.

Corrosivity: This product is not expected to cause eye or skin corrosion based on animal studies. Not classified as a corrosive product.

Sensitization: This product is not a skin sensitizer based on animal studies.

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Specific Target Organ Toxicity:

Single Exposure: No data available.

Repeat Exposure: No data available.

Carcinogen Status: In 1996 IARC re-evaluated carbon black as a group 2B carcinogen (possible human carcinogen). The carbon black 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 are classified as carcinogens by IARC, OSHA, NTP, ACGIH, or the EU CLP.

Germ Cell Mutagenicity: This product is not classified as a mutagen.

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

Aspiration Hazard: This product is not classified as an aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Product: No data available.

Carbon Black: EC50/ 24 hr Water flea (Daphnia magna) >6,500 mg/L.

Silicon Dioxide (amorphous): LC50/ 96 hr Fish (Brachydanio rerio) 5,000 mg/L.

EC50/ 48 hr Water flea (Ceriodaphnia dubia) 7,600 mg/L

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.

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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 of the components in this product are listed or exempt on the EPA TSCA inventory.

Canadian Environmental Protection Act: This product is an article and not subject to chemical notification.

EU Inventory: All of the components in this product are listed on or exempt from the EINECS inventory.

Australian Regulations: All of the components are listed on the Australian AICS inventory.

Chinese Regulations: All of the components are listed on the Inventory of Existing Chemical Substances of China (IECSC).

Korean Regulations: All of the components are listed on the Korean Existing Chemical List (KECL).

Philippine Regulations: This product is an article and not subject to chemical notification requirements.

Japanese Regulations: All of the components are listed on the Japanese Existing and New Chemical Substances Inventory (ENCS)

New Zealand Regulations: This product is an article and not subject to chemical notification requirements.

Taiwan Regulations: All of the components are listed on the Taiwan Chemical Substance Inventory (TCSI).

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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: Classified as per 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: None.

INTERNATIONAL REGULATIONS

German WGK: Not determined.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA: Not listed.

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization: Not listed.

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended: Not listed.

Other EU Regulations: This product is classified and labeled in accordance with EC CLP following the rules on mixture classification. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 (REACH)

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.

This SDS conforms to Regulation (EU) No. 1907/2006 and 2015/830, US OSHA Hazcom 2012 (29 CFR1910.1200), Canada WHMIS 2015 and the GHS.

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Date of previous revision: N/A

Gensuite Approval Date:

SDS Prepared By: Chemical Review Team (CRT)