

## SAFETY DATA SHEET

<b>SDS Number:</b>	288, REV D PITNEY BOWES, INC.	<b>Effective Date:</b>	February 19, 2009
		<b>Revised Date:</b>	October 10, 2013
<b>Product Name:</b>	Black Ink Cartridge (CG346A, CG347A, CG331A, CG342A)	<b>Page:</b>	1 of 8

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

#### 1.1 Product Identifier

**Trade Name:** Black Ink Cartridge (CG331A, CG342A, CG346A, CG347A)  
**Reorder Number:** 787-2, 787-3, 78P-K, 78P-B

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

**Product Use:** Printer Cartridge

#### 1.3 Details of the Supplier of the Safety Data Sheet

<b>Manufacturer:</b>	Pitney Bowes Inc. 1 Elmcroft Road Stamford, CT 06926-0700 United States	Pitney Bowes Ltd The Pinnacles Harlow Essex, CM19 5BD
<b>Information Phone Number:</b>	800-243-7824	+44(0) 8705 252 525
<b>E-mail:</b>	<a href="mailto:ehs@pb.com">ehs@pb.com</a>	<a href="mailto:ehs@pb.com">ehs@pb.com</a>

#### 1.4 Emergency Telephone Number

<b>Emergency Spill Information</b>	800-424-9300 <i>North America</i>	00-1-703-527-3887 <i>International (collect call)</i>
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**SDS Date of Preparation:** October 10, 2013

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the Substance or Mixture

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

**EU Classification (67/548/EEC):** Not classified as dangerous

**2.2 Label Elements:** None required.

**2.3 Other Hazards:** None

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances:

Chemical Name	CAS#	EINECS#	EU Classification (67/548/EEC)	GHS Classification Regulation (EC) No 1272/2008	%
Water	7732-18-5	231-791-2	Not Applicable	Not Applicable	<90
Aliphatic diol	Proprietary	Proprietary	Not Applicable	Not Applicable	<10

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1-(2-Hydroxyethyl)-2-pyrrolidinone	3445-11-2	222-359-4	Not Applicable	Not Applicable	<10
2-Pyrrolidone	616-45-5	210-483-1	Xi R36	Eye Irrit. 2A (H319) Acute Aquatic Tox 3 (H403)	<5
Substituted naphthalene sulfonate salt #9	Proprietary	Proprietary	Xi R41 N R51/53	Eye Corr. 1 (H318) Acute Aquatic Tox 2 (H401)	<2.5
Azonaphthalene sulfonate salt #1	Proprietary	Proprietary	Not Applicable	Not Applicable	<2.5

See Section 16 for further information on EU and GHS Classification.

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of First Aid Measures

**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. Remove contaminated clothing and launder before reuse. Get medical attention if irritation develops or persists.

**Inhalation:** Remove to fresh air. Get medical attention if irritation develops or persists.

**Ingestion:** Do not induce vomiting unless directed by a medical professional. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get medical attention.

**Notes to Physicians:** Treat symptomatically.

**4.2 Most Important symptoms and effects, both acute and delayed:** May cause mild eye and skin 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, carbon dioxide, dry chemical or foam to extinguish fire.

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

**Unusual Fire and Explosion Hazards:** None known.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides and low molecular weight hydrocarbons.

#### 5.3 Advice for Fire-Fighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Avoid contact with eyes, skin and clothing.

**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: Wipe up with absorbent material and place into a suitable container for disposal. Rinse area with a damp cloth to remove residue.

**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 contact with eyes, skin, and clothing. Wash thoroughly after use.

**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):**

Printer Cartridge

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control Parameters:**

Chemical Name	Exposure Limits
Aliphatic diol	None Established
1-(2-Hydroxyethyl)-2-pyrrolidinone	None Established
2-Pyrrolidone	None Established
Substituted naphthalene sulfonate salt #9	None Established
Azonaphthalene sulfonate salt #1	None Established

**8.2 Exposure Controls:**

**Engineering Controls:** None required.

**Respiratory Protection:** None required.

**Skin Protection:** None normally required. Wear rubber gloves if needed to avoid skin contact.

**Eye Protection:** None normally required. Wear safety glasses if eye contact is possible.

**Other:** Not required.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance:</b> Ink cartridge containing a black liquid.	<b>Vapor Density:</b> Not determined
<b>Odor:</b> No odor	<b>Specific Gravity:</b> Not determined
<b>Odor Threshold:</b> Not applicable	<b>Water Solubility:</b> Soluble
<b>pH:</b> 8.0	<b>Octanol/Water Partition Coefficient:</b> Not determined
<b>Melting Point/Freezing Point:</b> Not determined	<b>Autoignition Temperature:</b> Not determined
<b>Boiling Point:</b> Not determined	<b>Decomposition Temperature:</b> Not determined
<b>Flash Point:</b> >93.3°C (>200°F) Setaflash CC	<b>Viscosity:</b> Not determined
<b>Evaporation Rate:</b> Not determined	<b>Explosion Properties:</b> Not determined
<b>Flammable Limits:</b> LEL: Not determined UEL: Not determined	<b>Oxidizing Properties:</b> Not determined
<b>Vapor Pressure:</b> Not determined	<b>VOC:</b> < 3.0%

### 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 and strong bases.

### 10.6 Hazardous Decomposition Products:

Carbon dioxide, carbon monoxide, nitrogen oxides and low molecular weight hydrocarbons.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

**Eyes:** Minimal irritant. Based on animal testing.

**Skin:** Mild irritant. Based on animal testing.

**Ingestion:** Swallowing large amounts may cause gastrointestinal irritation with nausea, vomiting and diarrhea

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**Inhalation:** No adverse effects expected during normal use. Prolonged intentional inhalation may result in respiratory tract irritation.

### Acute Toxicity Values:

2-Pyrrolidone                                      LD50: 6,500 mg/kg                                      Rat                                      Oral

**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 expected to cause sensitization. None of the components are respiratory or skin sensitizers.

### Specific Target Organ Toxicity:

Single Exposure: No data available.

Repeat Exposure: Prolonged intentional inhalation may result in respiratory tract irritation.

**Carcinogen Status:** None of the component of this product are classified as carcinogens by IARC, OSHA, NTP, ACGIH, or the EU Directives.

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

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

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity:

Product: LC50/96 hr fathead minnow >750 mg/L.

2-Pyrrolidone: EC50/ 48 hr Water flea (*Daphnia pulex*) 13.21 mg/L

### 12.2 Persistence and Degradability:

No data available for product.

2-Pyrrolidone: Through co-metabolism, 2-pyrrolidone was reported to break down to glutamic acid under aerobic conditions by *Bacillus megaterium*.

Tetraethylene Glycol: Should biodegrade in the environment. In one study, tetraethylene glycol biodegraded slowly without an acclimation period with 23% biodegradation within 20 days, using a wastewater inoculum.

### 12.3 Bioaccumulative Potential:

No data available for product.

2-Pyrrolidone: The potential for bioconcentration in aquatic organisms is low.

Tetraethylene Glycol: The potential for bioconcentration in aquatic organisms is low.

### 12.4 Mobility in Soil:

No data available for product.

2-Pyrrolidone: Is expected to have very high mobility in soil.

Tetraethylene Glycol: Is expected to have very high mobility in soil.

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**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 Environmenta l Hazards</b>
<b>US DOT</b>	None	Not regulated for transport	None	None	No
<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:** TSCA (TSCA Substances Control Act): All ingredients are included in the TSCA Chemical Substances Inventory. The dyestuff in this ink is the subject of a Significant New Use Rule ("SNUR") under TSCA at 40 CFR 721.10045. This dyestuff (P-02-737) cannot be used in the form of a solid.

**Canadian Environmental Protection Act:** This product is considered a manufactured article and not subject to the Canadian Domestic Substances List.

**EU Inventory:** This product is considered a manufactured article and not subject to the EINECS inventory.

**Australian Regulations:** This product is considered a manufactured article and not subject to the Australian AICS inventory.

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**Chinese Regulations:** This product is considered a manufactured article and not subject to the Chinese IECSC inventory.

**Korean Regulations:** This product is considered a manufactured article and not subject to the Korean KECI inventory.

**Philippine Regulations:** This product is considered a manufactured article and not subject to the Philippine PICCS inventory.

### 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:** None

**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

**WHMIS Classification:** This product is considered a manufactured article and not subject to CEPA WHMIS.

**German WGK:** Not determined.

15.2 **Chemical Safety Assessment:**  
Not required

### SECTION 16: OTHER INFORMATION

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

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

Eye Corr. 1 – Eye Corrosion Category 1  
Eye Irrit. 2A – Eye Irritation Category 2A  
Acute Aquatic Tox 2 – Acute Aquatic Toxicity Category 2  
Acute Aquatic Tox 3 – Acute Aquatic Toxicity Category 3  
H318 Causes serious eye damage  
H319 Causes serious eye irritation  
H401 Toxic to aquatic life.  
H402 Harmful to aquatic life.

#### **EU Classes and Risk Phrases for Reference (See Sections 2 and 3):**

Xi Irritant  
Xn Harmful  
N Dangerous for the Environment  
R36 Irritating to eyes  
R38 Irritating to skin

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R41 Risk of serious damage to eyes.

R21/22 Harmful in contact with skin and if swallowed

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**SDS Prepared By:** Chemical Review Board

**WHMIS Reviewed** October 10, 2013

**Revision Summary:** Classification change based on animal test data. Changes to sections 2, 4, 11, 15, and 16.