

**SAFETY DATA SHEET**

SDS Number:	325, REV C PITNEY BOWES, INC.	Effective Date:	January 22, 2013
Product Name:	Versatile Black Ink (C8842A)	Revised Date:	September 22, 2015
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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE
AND THE COMPANY/UNDERTAKING****1.1 Product Identifier**

Trade Name: Versatile Black Ink (C8842A)
Reorder Number: 711-1

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**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:** September 22, 2015**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the Substance or Mixture****CLP/GHS Classification (1272/2008):** Not classified as hazardous.**2.2 Label Elements:** None required.**2.3 Other Hazards:** None**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixture:**

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Chemical Name	CAS#	EINECS#	GHS Classification Regulation (EC) No 1272/2008	%
Water	7732-18-5	231-791-2	Not Applicable	<90
Aliphatic diol	Proprietary	Proprietary	Not Applicable	<10
2-Pyrrolidone	616-45-5	210-483-1	Eye Irrit. 2A (H319) Acute Aquatic Tox 3 (H403)	<10

See Section 16 for further information on 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: If large amounts are swallowed, do not induce vomiting unless directed to by a physicians. 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 slight eye and skin irritation. Product is self contained within a cartridge and ingestion 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: 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

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid contact with eyes, skin and clothing.

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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
Water	None Established
Aliphatic diol	None Established
2-Pyrrolidone	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

9.1 Information on basic Physical and Chemical Properties:

Appearance: Ink cartridge containing a black	Vapor Density: > 1 (air = 1.0)
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liquid with no odor.	
Odor: No odor	Specific Gravity: 1-1.2
Odor Threshold: Not determined	Water Solubility: Soluble
pH: 9.0 – 9.4	Octanol/Water Partition Coefficient: Not determined
Melting Point/Freezing Point: Not determined	Autoignition Temperature: Not determined
Boiling Point: Not determined	Decomposition Temperature: Not determined
Flash Point: >93.3°C (>200°F) PM CC	Viscosity: > cp
Evaporation Rate: Not determined	Explosion Properties: Not determined
Flammable Limits: LEL: Not determined UEL: Not determined	Oxidizing Properties: Not determined
Vapor Pressure: Not determined	VOC: < 3%

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: May cause eye irritation with redness and tearing.

Skin: May cause mild skin irritation.

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

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

Acute Toxicity Values:

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Product	No data available	No data available	No data available
2-Pyrrolidone	LD50: 6,500 mg/kg	Rat	Oral
Aliphatic diol	LD50: 3,730 mg/kg LD50: 10,000 mg/kg	Rat Rabbit	Oral Skin

Irritation: May cause slight eye and skin 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: No data available.

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

Carcinogen Status: None of the 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 hazard.

Toxicity for Reproduction: This product is not classified 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*.

12.3 Bioaccumulative Potential:

No data available for product.

2-Pyrrolidone: 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.

12.5 Results of PBT and vPvB Assessment:

Not required.

12.6 Other Adverse Effects:

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

Canadian Environmental Protection Act: All of the components are listed on the Canadian DSL.

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: All of the components are listed on the Philippine Inventory of Chemical and Chemical Substances (PICCS).

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Japanese Regulations: All of the components are listed on the Japanese MITI inventory.
New Zealand Regulations: All of the components are listed on the New Zealand 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: Not Hazardous.

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313: None

INTERNATIONAL REGULATIONS

German WGK: Not determined.

15.2 Chemical Safety Assessment:
Not required

SECTION 16: OTHER INFORMATION

NFPA Codes:	Health: 1	Fire: 1	Instability: 0
HIMS Codes:	Health: 1	Fire: 1	Physical Hazard: 0

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

Eye Irrit. 2A – Eye Irritation Category 2A
Acute Aquatic Tox 3 – Acute Aquatic Toxicity Category 3
H319 Causes serious eye irritation
H402 Harmful to aquatic life.

SDS Prepared By: Chemical Review Board
Date Revised: September 22, 2015

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

Previous Revision: August 25, 2014