



SAFETY DATA SHEET

MSDS Number:	295, REV B PITNEY BOWES, INC.	Effective Date: Revised Date:	February 11, 2010 April 16, 2012
Product Name:	Cyan Ink Cartridge (CG343A)	Page:	1 of 7

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

1.1 Product Identifier

Trade Name: Cyan Ink Cartridge (CG343A)
Reorder Number: 787-D

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

1.4 Emergency Telephone Number

Emergency Spill Information	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: April 16, 2012

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	%
Aliphatic diol	Proprietary	Proprietary	Not Applicable	Not Applicable	<10
1-(2-Hydroxyethyl)-2-pyrrolidinone	3445-11-2	222-359-4	Not Applicable	Not Applicable	<10

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2-Pyrrolidone	616-45-5	210-483-1	Xi R36	Eye Irrit. 2A (H319) Acute Aquatic Tox 3 (H403)	<5
Substituted naphthalene sulfonate salt #4	Proprietary	Proprietary	Not Applicable	Not Applicable	<5
Colorant	Proprietary	Proprietary	Not Applicable	Not Applicable	<4
Water	7732-18-5	231-791-2	Not Applicable	Not Applicable	>80

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

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eyes: Immediately flush with plenty of running cold water for 15 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.

Ingestion: If large amounts are swallowed, do not induce vomiting. 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 eye and skin irritation. Swallowing large amounts may cause gastrointestinal irritation with nausea, vomiting and diarrhea.

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.

6.2 Environmental Precautions:

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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 #4	None Established
Colorant (as copper dust and mists)	1 mg/m ³ TWA OSHA PEL 1 mg/m ³ TWA ACGIH TLV 1 mg/m ³ TWA, 2 mg/m ³ STEL France OEL 1 mg/m ³ TWA, 2 mg/m ³ STEL UK OEL 0.1 mg/m ³ TWA (inhaleable) DFG MAK 0.2 mg/m ³ STEL (inhaleable) DFG MAK

8.2 Exposure Controls:

Engineering Controls: None required.

Respiratory Protection: Not 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 for normal use conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

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Appearance: Ink cartridge containing a blue liquid with no odor.	Vapor Density: >1
Odor: No odor	Specific Gravity: 1-1.2
Odor Threshold: Not applicable	Water Solubility: Soluble
pH: 7.1-7.7	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) Setaflash	Viscosity: > 2 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 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.

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Acute Toxicity Values:

2-Pyrrolidone	LD50: 6,500 mg/kg	Rat	Oral
Aliphatic diol	LD50: 3,730 mg/kg	Rat	Oral
	LD50: 10,000 mg/kg	Rabbit	Skin
1-(2-Hydroxyethyl)-2-pyrrolidinone	LD50: 14,430 mg/kg	Rat	Oral

Irritation: May cause 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 component of this product are classified as carcinogens by IARC, OSHA, NTP, ACGIH, or the EU Directives.

Germ Cell Mutagenicity: No data available for product.

Toxicity for Reproduction: No data available for product.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

LC50/96 hr fathead minnow >750 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.

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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

	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: This product is considered a manufactured article and not subject to the TSCA inventory.

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.

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.

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

U.S. REGULATIONS

OSHA Hazard Classification: Occupational Exposure Limit.

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: Acute Health Hazard.

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313: Copper Compounds <4%

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: 1	Fire: 1	Reactivity: 0
HIMS Codes:	Health: 1	Fire: 1	Reactivity: 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

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

Xi Irritant

R36 Irritating to eyes.

SDS Prepared By: Chemical Review Board

WHMIS Reviewed April 16, 2012

Revision Summary: Comprehensive review. Format change.