



SAFETY DATA SHEET

SDS Number:	287, REV D PITNEY BOWES, INC.	Effective Date:	February 19, 2009
		Revised Date:	August 25, 2014
Product Name:	Fluorescent Red Ink Cartridge (CG333A, CG329A, CG380A, CG325A)	Page:	1 of 8

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

1.1 Product Identifier

Trade Name: Fluorescent Red Ink Cartridge (CG333A, CG329A, CG380A, CG325A)
Reorder Number: 787-0, 787-1, 787-8, 78P-R

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 (SAT NAV:AL10 9BW)
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UK Mailing Address:
Pitney Bowes Ltd
PO Box 12003
Harlow
Essex, CM20 9LH
United Kingdom

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: August 25, 2014

SECTION 2: HAZARDS IDENTIFICATION
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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.

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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
2-Pyrrolidone	616-45-5	210-483-1	Xi R36	Eye Irrit. 2A (H319) Acute Aquatic Tox 3 (H402)	<5
Tetraethylene Glycol	112-60-7	203-989-9	Not Applicable	Not Applicable	<5
Alkyldiol Ethoxylate	Proprietary	Proprietary	Xi R38, R41 Xn R21/22 N R51/53	Eye Irrit. 2A (H319) Skin Irrit. 2 (H315) Acute Tox 4 (H302) Acute Tox 4 (H312) Acute Aquatic Tox 2 (H401)	<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, 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. 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.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical treatment should not be required.

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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:**
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

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2-Pyrrolidone	None Established
Tetraethylene Glycol	None Established
Alkyldiol Ethoxylate	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 red liquid.	Vapor Density: > 1 (air = 1.0)
Odor: No odor	Specific Gravity: 1-1.2
Odor Threshold: Not applicable	Water Solubility: Soluble
pH: 7.0-8.8	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) Pensky-Martens CC	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: < 3.0%

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:

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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
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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.

Acute Toxicity Values:

2-Pyrrolidone	LD50: 6,500 mg/kg	Rat	Oral
Tetraethylene Glycol	LD50: 28,900 mg/kg	Rat	Oral
	LD50: >20,000 mg/kg	Rabbit	Skin

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: 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

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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.

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	None	None	No

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		transport			
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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.

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

U.S. REGULATIONS

OSHA Hazard Classification: Non- Hazardous

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

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.

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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):

Skin Irrit. 2 – Skin Irritation Category 2
Eye Irrit. 2A – Eye Irritation Category 2A
Acute Tox 4 – Acute Toxicity Category 4
Acute Aquatic Tox 2 – Acute Aquatic Toxicity Category 2
Acute Aquatic Tox 3 – Acute Aquatic Toxicity Category 3
H302 Harmful if swallowed
H312 Harmful in contact with skin
H315 Causes mild skin irritation.
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
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 August 25, 2014

Revision Summary: Address change.