

## SAFETY DATA SHEET

<b>SDS Number:</b>	280, REV E PITNEY BOWES, INC.	<b>Effective Date:</b>	June 14, 2007
		<b>Revised Date:</b>	August 30, 2013
<b>Product Name:</b>	Pitney Bowes Office Equipment Cleaner (Batch #126994 and higher)	<b>Page:</b>	1 of 9

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

**1.1 Product Identifier**

**Trade Name:** Pitney Bowes Office Equipment Cleaner (Batch #126994 and higher)  
**Reorder Number:** CK0-4, CK0-1, CK0-2, CK0-3

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

**Product Use:** Office Equipment Cleaner

**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:** August 30, 2013

### SECTION 2: HAZARDS IDENTIFICATION

**2.1 Classification of the Substance or Mixture**

**CLP/GHS Classification (1272/2008):**

Physical:	Health:	Environmental
Non-Hazardous	Eye Irritant Category 2 Skin Irritant Category 2	Non-Hazardous

**EU Classification (67/548/EEC):** Xi; R36/38

**2.2 Label Elements:**

**WARNING!** Contains Tetrasodium Ethylenediaminetetraacetate, and Sodium Hydroxide



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### Hazard Phrases:

H315	Causes skin irritation
H319	Causes serious eye irritation.

### Precautionary Phrases

P264	Wash exposed skin thoroughly after handling.
P280	Wear protective gloves.
P302 + P352	IF ON SKIN: Wash with plenty of water
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.

### 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	%
2-Butoxyethanol	111-76-2	203-905-0	Xi, Xn R20/21/22, R36/38	Acute Tox 4 (H302, H312, H332) Eye Irrit 2 (H319) Skin Irrit 2 (H315)	3-6
Dipropylene Glycol Methyl Ether	34590-94-8	252-104-2	None	None	1-5
Tetrasodium Ethylenediaminetetraacetate	64-02-8	200-573-9	Xi, Xn, R22, R41	Eye Dam. 1 (H318) Acute Tox 4 (H302)	0.1-0.5
Sodium Hydroxide	1310-73-2	215-185-5	C, R35	Skin Corr.1A (H314)	0.1-0.5

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

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

**Eyes:** 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. Get medical attention if irritation develops or persists.

**Ingestion:** DO NOT induce vomiting. Never give fluids or induce vomiting if the victim is

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unconscious or having convulsions. Get medical attention.

**Notes to Physicians:** Treat symptomatically.

**4.2 Most Important symptoms and effects, both acute and delayed:** Causes eye and skin irritation.

**4.3 Indication of any immediate medical attention and special treatment needed:** Immediate medical treatment required for eye contact.

### 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:** Not classified as combustible, but will burn under fire conditions.

**Hazardous Decomposition Products:** Carbon monoxide, and carbon dioxide.

**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

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control Parameters:

Chemical Name	Exposure Limits
2-Butoxyethanol United States  Australia United Kingdom Germany European Union	50 ppm TWA OSHA PEL 20 ppm TWA ACGIH TLV 20 ppm TWA; 50 ppm STEL 25 ppm UK-TWA, 50 ppm UK-STEL 10 ppm TWA; 20 ppm STEL DFG MAK 20 ppm EU-TWA, 50 ppm EU-STEL skin
Dipropylene Glycol Methyl Ether United States  Australia United Kingdom Germany European Union	100 ppm TWA OSHA PEL (Skin) 100 ppm TWA; 150 ppm STEL ACGIH TLV (Skin) 50 ppm TWA 50 ppm UK-TWA 50 ppm TWA; 50 ppm STEL DFG MAK 50 ppm EU-TWA
Tetrasodium Ethylenediaminetetraacetate	None Established
Sodium Hydroxide United States  Australia United Kingdom	2 mg/m <sup>3</sup> TWA OSHA PEL 2 mg/m <sup>3</sup> Ceiling ACGIH TLV 2 mg/m <sup>3</sup> Ceiling 2 mg/m <sup>3</sup> UK- STEL

#### 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:

<b>Appearance:</b> Clear colorless liquid.	<b>Vapor Density:</b> > 1 (air = 1.0)
<b>Odor:</b> Pleasant odor	<b>Specific Gravity:</b> 0.9994 @ 25°C
<b>Odor Threshold:</b> Not determined	<b>Water Solubility:</b> Soluble
<b>pH:</b> 12.0 – 12.5	<b>Octanol/Water Partition Coefficient:</b> Not determined
<b>Melting Point/Freezing Point:</b>	<b>Autoignition Temperature:</b> Not determined

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0°C (32°F)	
<b>Boiling Point:</b> 100°C (212°F)	<b>Decomposition Temperature:</b> Not determined
<b>Flash Point:</b> >93.3°C (>200°F) TAG 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> 105.750 g/L (non-exempt VOC) 10.58%

### 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, and carbon monoxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

**Eyes:** Causes eye irritation with redness and tearing.

**Skin:** Prolonged skin contact may cause irritation with redness and burning of the skin. Prolonged or extensive overexposure to 2-butoxyethanol may cause symptoms similar to those listed under ingestion.

**Ingestion:** Swallowing may cause gastrointestinal irritation, nausea, vomiting or diarrhea. Large amounts may cause central nervous system depression, noncardiogenic pulmonary edema, metabolic acidosis, kidney and liver damage and coma.

**Inhalation:** Inhalation may cause respiratory irritation, coughing, headache, dizziness, drowsiness and nausea.

### Acute Toxicity Values:

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2-Butoxyethanol	LD50: 470 mg/kg LD50: 400 mg/kg LC50: 450 ppm / 4hr	Rat Rabbit Rat	Oral Dermal Inhalation
Dipropylene Glycol Methyl Ether	LD50: 5,350 mg/kg LD50: 9,500 mg/kg	Rat Rabbit	Oral Dermal
Sodium Hydroxide	LD50: 140-340 mg/kg LD50: 1,350 mg/kg	Rat Rabbit	Oral Dermal

**Irritation:** May cause eye and skin irritation.

**Corrosivity:** This is not classified as a corrosive product, but contains a corrosive components.

**Sensitization:** Not classified as a sensitizer.

**Specific Target Organ Toxicity:**

Single Exposure: The principal effect exerted by 2-butoxyethanol and its metabolite 2-butoxyacetic acid is hematotoxicity, with the rat being the most sensitive species. In rats, adverse effects on the central nervous system, kidneys and liver occur at higher exposure concentrations than do the hemolytic effects.

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. 2-Butoxyethanol was negative in the AMES test, both with and without activation, the Chinese hamster ovary assay and in a in-vivo bone marrow micronucleus test.

**Toxicity for Reproduction:** This product is not classifies as a reproductive hazard. 2-Butoxyethanol; In animals, adverse effects on reproduction and development have not been observed at less than toxic doses.

### SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity:**

No data available for product.

2-Butoxyethanol:

LC50: Daphnia magna (Water flea)1,720 mg/L/24 hr

LC50:Lepomis macrochirus (Bluegill) 1,490 mg/L/96 hr

Tetrasodium Ethylenediaminetetraacetate:

LC50: Lepomis macrochirus(Bluegill)486 mg/L/96 hr

LC50: Daphnia magna(Water Flea)625 mg/L/24 hr

Sodium Hydroxide:

LC50 Carassius auratus (Goldfish)160 mg/L/24 hr

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### 12.2 Persistence and Degradability:

No data available for product.

2-Butoxyethanol: The maximum Theoretical BOD reported was 88% for 20 days

Dipropylene Glycol Methyl Ether: Five-, ten-, and twenty-day BOD values for were reported as 0, 0, and 31%, respectively. This delayed oxygen demand suggests that an acclimation period is required in order for a dipropylene glycol monomethyl ether-degrading population to become established.

### 12.3 Bioaccumulative Potential:

No data available for product.

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

Dipropylene Glycol Methyl Ether: Infinitely soluble in water, it will not be expected to bioconcentrate in aquatic organisms.

### 12.4 Mobility in Soil:

No data available for product.

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

Dipropylene Glycol Methyl Ether: The high water solubility of dipropylene glycol monomethyl ether suggests that it will not sorb to soils or sediments and, therefore, would be expected to leach through 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 Environmenta l Hazards
<b>US DOT</b>	None	Not regulated for transport	None	None	No
<b>EU ADR/RID</b>	None	Not regulated for	None	None	No

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		transport			
<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

<b>SECTION 15: REGULATORY INFORMATION</b>
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**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:**

**International Inventories:**

**US EPA TSCA Inventory:** All the components of this product are listed in the EPA TSCA Inventory.

**Canadian Environmental Protection Act:** All of the components are listed on the Canadian (DSL) Domestic Substances List.

**EU Inventory:** All the components are listed on the EINECS inventory.

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

**Korean Regulations:** All of the components are listed on the Korean KECL inventory.

**Japanese Regulations:** All of the components are listed on the METI inventory.

**U.S. REGULATIONS**

**CERCLA:** Spills of this product are required to be reported to the National Response Center. The RQ for the product, based on the RQ for Sodium Hydroxide(0.5% maximum) of 1,000 lbs, is 200,000 lbs. 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, Chronic Health

**EPA SARA 313:** This product contains the following chemicals that are regulated under SARA Title III, section 313: Glycol Ethers (2-Butoxyethanol 3-6% (111-76-2)

**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:** Class D-2-B : Toxic material causing other toxic effects.

**German WGK:** Not determined.

**15.2 Chemical Safety Assessment:**

Not required



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### SECTION 16: OTHER INFORMATION

**NFPA Codes:**            **Health: 2**                    **Fire: 1**                    **Instability:0**  
**HIMS Codes:**            **Health: 2**                    **Fire: 1**                    **Physical Hazard: 0**

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

Eye Dam. 1 – Eye Damage Category 1  
Eye Irrit. 2 – Eye Irritation Category 2  
Acute Tox 4 – Acute Toxicity Category 4  
Skin Corr. 1A – Skin Corrosion Category 1A  
Skin Irrit. 2 - Skin Irritant Category 2  
H302 Harmful if swallowed  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage  
H315 Causes skin irritation  
H318 Causes serious eye damage  
H319 Causes serious eye irritation  
H332 Harmful if inhaled.

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

C Corrosive  
Xi Irritant  
Xn Harmful  
R20/21/22 Harmful by inhalation, in contact with skin, and if swallowed  
R22 Harmful if swallowed  
R36/38 Irritating to eyes and skin  
R36/37/38 Irritating to eyes, respiratory system and skin  
R41 Risk of serious damage to eyes.

**SDS Prepared By:**            Chemical Review Board  
**WHMIS Reviewed**            August 30, 2013

**Revision Summary:** Update re-order numbers.