SAFETY DATA SHEET

SDS Number: 280, REV E
PITNEY BOWES, INC.

Effective Date: June 14, 2007
Revised Date: August 30, 2013

Product Name: Pitney Bowes Office Equipment Cleaner (Batch #126994 and higher)

Page: 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

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

E-mail: ehs@pb.com

1.4 Emergency Telephone Number

Emergency Spill Information

North America: 800-424-9300
International (collect call): 00-1-703-527-3887

SDS Date of Preparation: August 30, 2013

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008):

<table>
<thead>
<tr>
<th>Physical:</th>
<th>Health:</th>
<th>Environmental</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Hazardous</td>
<td>Eye Irritant Category 2</td>
<td>Non-Hazardous</td>
</tr>
<tr>
<td>Skin Irritant Category 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

2.2 Label Elements:

WARNING! Contains Tetrasodium Ethylenediaminetetraacetate, and Sodium Hydroxide
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.
- 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:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>EINECS#</th>
<th>EU Classification (67/548/EEC)</th>
<th>GHS Classification Regulation (EC) No 1272/2008</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>203-905-0</td>
<td>Xi, Xn, R20/21/22, R36/38</td>
<td>Acute Tox 4 (H302, H312, H332) Eye Irrit 2 (H319) Skin Irrit 2 (H315)</td>
<td>3-6</td>
</tr>
<tr>
<td>Dipropylene Glycol Methyl Ether</td>
<td>34590-94-8</td>
<td>252-104-2</td>
<td>None</td>
<td>None</td>
<td>1-5</td>
</tr>
<tr>
<td>Tetrasodium Ethylenediaminetetraacetate</td>
<td>64-02-8</td>
<td>200-573-9</td>
<td>Xi, Xn, R22, R41</td>
<td>Eye Dam. 1 (H318) Acute Tox 4 (H302)</td>
<td>0.1-0.5</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>215-185-5</td>
<td>C, R35</td>
<td>Skin Corr.1A (H314)</td>
<td>0.1-0.5</td>
</tr>
</tbody>
</table>

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...
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
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td>50 ppm TWA OSHA PEL</td>
</tr>
<tr>
<td>United States</td>
<td>20 ppm TWA ACGIH TLV</td>
</tr>
<tr>
<td>Australia</td>
<td>20 ppm TWA; 50 ppm STEL</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>25 ppm UK-TWA, 50 ppm UK-STEL</td>
</tr>
<tr>
<td>Germany</td>
<td>10 ppm TWA; 20 ppm STEL DFG MAK</td>
</tr>
<tr>
<td>European Union</td>
<td>20 ppm EU-TWA, 50 ppm EU-STEL skin</td>
</tr>
<tr>
<td>Dipropylene Glycol Methyl Ether</td>
<td>100 ppm TWA OSHA PEL (Skin)</td>
</tr>
<tr>
<td>United States</td>
<td>100 ppm TWA; 150 ppm STEL ACGIH TLV (Skin)</td>
</tr>
<tr>
<td>Australia</td>
<td>50 ppm TWA</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>50 ppm UK-TWA</td>
</tr>
<tr>
<td>Germany</td>
<td>50 ppm TWA; 50 ppm STEL DFG MAK</td>
</tr>
<tr>
<td>European Union</td>
<td>50 ppm EU-TWA</td>
</tr>
<tr>
<td>Tetrasodium Ethylenediaminetetraacetate</td>
<td>None Established</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>2 mg/m3 TWA OSHA PEL</td>
</tr>
<tr>
<td>United States</td>
<td>2 mg/m3 Ceiling ACGIH TLV</td>
</tr>
<tr>
<td>Australia</td>
<td>2 mg/m3 Ceiling</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>2 mg/m3 UK- STEL</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Appearance: Clear colorless liquid.</th>
<th>Vapor Density: &gt; 1 (air = 1.0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor: Pleasant odor</td>
<td>Specific Gravity: 0.9994 @ 25°C</td>
</tr>
<tr>
<td>Odor Threshold: Not determined</td>
<td>Water Solubility: Soluble</td>
</tr>
<tr>
<td>pH: 12.0 – 12.5</td>
<td>Octanol/Water Partition Coefficient: Not determined</td>
</tr>
<tr>
<td>Melting Point/Freezing Point:</td>
<td>Autoignition Temperature: Not determined</td>
</tr>
</tbody>
</table>
### 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:**
2-Butoxyethanol | LD50: 470 mg/kg  
| LD50: 400 mg/kg  
| LC50: 450 ppm / 4hr
Rat  
Rabbit  
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 classified 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 classified 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
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

<table>
<thead>
<tr>
<th>14.1 UN Number</th>
<th>14.2 UN Proper Shipping Name</th>
<th>14.3 Transport Hazard Class(s)</th>
<th>14.4 Packing Group</th>
<th>14.5 Environmental Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>No</td>
</tr>
<tr>
<td>EU ADR/RID</td>
<td>None</td>
<td>Not regulated for transport</td>
<td>None</td>
<td>No</td>
</tr>
</tbody>
</table>
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<tr>
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<th>Product Name:</th>
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<td>Pitney Bowes Office Equipment Cleaner (Batch #126994 and higher)</td>
<td>June 14, 2007</td>
<td>August 30, 2013</td>
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<td>PITNEY BOWES, INC.</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

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

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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<table>
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<tr>
<td></td>
<td></td>
<td>Page:</td>
<td>9 of 9</td>
</tr>
</tbody>
</table>

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 Summery: Update re-order numbers.