

SAFETY DATA SHEET

SDS Number:	279, REV A PITNEY BOWES, INC.	Effective Date:	April 19, 2007
Product Name:	Pitney Bowes Office Equipment Cleaner	Revised Date:	
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SECTION 1 – IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name:	Pitney Bowes Office Equipment Cleaner		
Reorder Number:	CK0-4PB, CK0-1, CK0-2, CK0-3		
Manufacturer:	Pitney Bowes Inc.		
Address:	1 Elmcroft Road, Stamford, CT 06926-0700		
For SDS Copies:	www.pb.com (go to search)	North America:	800-243-7824
		<i>International:</i>	00 44 1279 449479
Emergency/Chemtrec:	800-424-9300 <i>North America</i>	00-1-703-527-3887 <i>International (collect call)</i>	
MSDS Prepared By:	Chemical Review Board		
WHMIS Reviewed	April 19, 2007		

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview:	Clear, colorless liquid with a pleasant odor. Combustible liquid. May cause eye and skin irritation. Inhalation of mists may cause irritation, headache, dizziness, drowsiness and nausea. Harmful if swallowed or absorbed through the skin.
EU Preparation Classification (1999/45/EC):	Not classified as dangerous

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NO./EINECS NO.	%	EC SUBSTANCE CLASSIFICATION (67/548/EEC)
2-Butoxyethanol	111-76-2 / 203-905-0	5-8	Xn, Xi, R20/21/22, R36/38
Dipropylene Glycol Methyl Ether	34590-94-8 / 252-104-2	1-5	None
Tetrasodium Ethylenediaminetetraacetate	64-02-8 / 200-573-9	0.1-0.5	Xi, R36/37/38
Sodium Hydroxide	1310-73-2/215-185-5	0.1-0.5	C, R35

See Section 16 for full text of EC Classification and R Phrases

SECTION 4 – FIRST AID MEASURES

Eyes:	Immediately flush eyes with plenty of cool to lukewarm water, holding eyelids open to assure thorough rinsing. Get medical attention if irritation persists.
Skin:	Remove contaminated clothing. Wash exposed area with soap and water. Get medical attention if irritation or redness persists. Launder clothing before reuse.
Ingestion:	If swallowed, DO NOT induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get medical attention.

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SECTION 4 – FIRST AID MEASURES

Inhalation:	If symptoms occur, remove person to fresh air. If irritation or pulmonary symptoms develop, consult a physician.
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SECTION 5 – FIRE FIGHTING PROCEDURES

Extinguishing Media:	Use water, foam, carbon dioxide or dry chemical to extinguish the fire.
Fire Fighting Instructions:	Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. Cool fire exposed containers with water.
Unusual Fire and Explosion Hazards:	None known.
Known or Anticipated Hazardous Products of Combustion:	May produce carbon monoxide and carbon dioxide.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:	Ventilate the area and remove ignition sources. Contain spill or leak.
Personal Precautions:	Avoid contact with eyes, skin and clothing.
Environmental Precautions:	It is recommended to keep away from drains, surface and ground water.
Methods for Cleanup:	
Large Spill:	Contain spill and absorb with an inert absorbent. Place in an appropriate container for proper disposal.
Small Spill:	Wipe up or collect with absorbent material and place into a suitable container for disposal.

SECTION 7 – HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Wash thoroughly after handling.
Storage:	Store in a cool, dry, well-ventilated area. Keep away from excessive heat, sparks and open flames. Keep out of the reach of children.
Other Precautions:	Not recommended for use on soft vinyls, varnishes or aluminum. Some grades of PMMA (plexiglass) may be affected. Always test in an inconspicuous area before use.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION

Occupational Exposure Limits:	
2-Butoxyethanol United States	20 ppm, skin TWA ACGIH-TLV 50 ppm, skin TWA OSHA-PEL
United Kingdom	25 ppm, skin TWA, 50 STEL UK WEL
Sodium Hydroxide United States	2 mg/m3 Ceiling ACGIH TLV 2 mg/m3 TWA OSHA PEL
United Kingdom	2 mg/m3 STEL UK WEL

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SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION

Dipropylene Glycol Monomethyl Ether	
United States	100 ppm, skin TWA ACGIH-TLV, 1500 ppm STEL ACGIH-TLV
United Kingdom	100 ppm, skin ³ TWA OSHA-PEL 50 ppm, skin TWA UK WEL
Tetrasodium Ethylenediaminetetraacetate	None Established
Engineering Controls:	None required with normal use.
Ventilation Requirements:	General office ventilation is adequate under normal use conditions. If the TLV is exceeded, mechanical ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits.
Personal Protective Equipment:	
Eye/Face Protection:	None normally required. If splashing is possible, wear safety glasses.
Skin Protection:	Not required under normal use conditions. Wear rubber gloves if needed to avoid prolonged skin contact.
Respiratory Protection:	None needed under normal use conditions. If the exposure limit is exceeded, an approved organic vapor respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance local regulations and good industrial hygiene practice.
Other Protective Clothing or Equipment:	None required under normal use conditions.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless liquid with a pleasant odor.
Boiling Point:	212°F (100°C)
Freezing Point:	32°F (0°C)
Melting Point:	Not applicable
Octanol/Water Partition Coefficient:	Not applicable
Odor:	Pleasant
Odor Threshold:	Not applicable
Percent Volatile:	98.8%
pH Value:	12-12.5
Physical State:	Liquid
Reactivity in Water:	None
Solubility in Water:	Soluble
Specific Gravity or Density (Water=1):	0.999
Vapor Density:	Not available
Vapor Pressure:	Not available
Volatile Organic Compounds:	121.9 g/L (non-exempt) VOC
Flammable Limits in Air (% by Volume):	Not available
Flash Point:	188.6°F (87°C) TAG CC

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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Autoignition Temperature:	Not available
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SECTION 10 – STABILITY AND REACTIVITY

Stability:	Stable
Incompatibility With Other Materials:	Avoid strong oxidizing agents.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.
Hazardous Polymerization:	Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Relevant Routes of Exposure:	Skin contact, inhalation, eyes		
Potential Health Effects:			
Eyes:	May cause irritation with redness, tearing, and burning of the eyes.		
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.		
Medical Conditions Generally Aggravated By Exposure:	Persons with pre-existing eye, skin or respiratory disorders.		
Carcinogenicity:			
NTP:	No		
IARC:	No		
OSHA:	No		
ACGIH:	No		
EU:	No		
OTHER:	No		
Acute Toxicity Data			
No animal testing has been conducted on this product as sold. The data reported below is the available data for the product components obtained from the published literature.			
VALUE	ANIMAL	ROUTES	COMPONENTS
LC50: 450 ppm/4 hr	Rat	Inhalation	2-butoxyethanol
LD50: 470 mg/kg	Rat	Oral	2-butoxyethanol
LD50: 220 mg/kg	Rabbit	Dermal	2-butoxyethanol
LD50: 5220 mg/kg	Rat	Oral	Dipropylene Glycol Monomethyl Ether
LD50: 13-14 mg/kg	Rabbit	Dermal	Dipropylene Glycol Monomethyl Ether
LD50: 630-1260 mg/kg	Rat	Dermal	Tetrasodium Ethylenediaminetetraacetate

SECTION 12 - ECOLOGICAL INFORMATION

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SECTION 12 - ECOLOGICAL INFORMATION

Ecological Information:			No data available for product. See below for component data.
VALUE	SPECIES	COMPONENTS	
96 hr/LC50: 1,490 mg/L 24 hr/LC50: 1720 mg/L	Bluegill Daphnia	2-butoxyethanol 2-butoxyethanol	
96hr/LC50: >10,000 mg/L 48 hr/EC50: >5,000 mg/L	Fathead minnow Daphnia	Dipropylene Glycol Monomethyl Ether Dipropylene Glycol Monomethyl Ether	

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Considerations:	Dispose in accordance with local, state or provincial and federal or national regulations.
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SECTION 14 - TRANSPORT INFORMATION

Not regulated for transportation under IATA/ICAO, IMDG, US DOT, EU ADR, or Canadian TDG Regulations.
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SECTION 15 - REGULATORY INFORMATION

EU Regulations:	EU: All the components are listed on the EINECS inventory.
EU Labeling:	Not classified as a dangerous preparation.
Canadian Regulations:	CEPA: All of the components are listed on the Canadian DSL. WHMIS: Class B, Combustible Liquid; Class D, Division 2, Subdivision B, Toxic material causing other chronic effects.
Japanese Regulations:	All of the components are listed on the METI 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.
US Federal Regulations:	This product contains chemical or chemical compounds listed in the following SARA Title III categories: Extremely Hazardous Substances (302): None Toxic Chemical Release Reporting (313): Glycol Ethers (Ethylene glycol monobutyl ether) 5-8% SARA 311/312 Hazards: Acute Health, Chronic Health, Fire Hazard TSCA: All the components of this product are listed in the EPA TSCA Inventory.
US State Regulations:	This product does not contain any chemicals subject to California Proposition 65.

SECTION 16 - OTHER INFORMATION

NFPA Codes:	
Health:	2
Flammability:	2
Reactivity:	0
HMIS Codes:	
Health:	2
Flammability:	2

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SECTION 16 - OTHER INFORMATION

Reactivity:	0
Protection:	
EU Classes and Risk Phrases for Reference (See Sections 2 and 3):	Xn Xi Irritant Xn Harmful C Corrosive R20/21/22 Harmful by inhalation, in contact with the skin and if swallowed. R35 Causes severe burns. R36/37/38 Irritating to eyes, respiratory system and skin. R36/38 Irritating to eyes and skin.
Other Information:	Keep out of reach of children.