

**SAFETY DATA SHEET**

<b>SDS Number:</b>	277, REV G PITNEY BOWES, INC.	<b>Effective Date:</b> <b>Revised Date:</b>	April 20, 2007 July 31, 2014
<b>Product Name:</b>	Pitney Bowes Duster	<b>Page:</b>	1 of 8

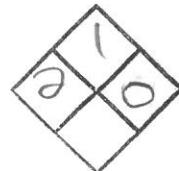
**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING**
**1.1 Product Identifier**

**Trade Name:** Pitney Bowes Duster  
**Reorder Number:** 903-K, CK0-2, CK0-3

**1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Product Use:** Compressed Air for Cleaning Office Equipment

**1.3 Details of the Supplier of the Safety Data Sheet**

<b>Manufacturer:</b>	<b>US Facility:</b> Pitney Bowes Inc. 27 Waterview Drive MSC 27-3C Shelton, CT 006484 United States	<b>UK Facility:</b> 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**

<b>Number:</b> 800-243-7824	<b>+44(0) 8705 252 525</b>
<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	00-1-703-527-3887
	<i>North America</i>	<i>International (collect call)</i>

**SDS Date of Preparation:** July 31, 2014

**SECTION 2: HAZARDS IDENTIFICATION**
**2.1 Classification of the Substance or Mixture**

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

<b>Physical:</b>	<b>Health:</b>	<b>Environmental:</b>
Compressed Gas	Non-Hazardous	Non-Hazardous

**EU Classification (67/548/EEC):** Not classified as dangerous

**2.2 Label Elements:**

WARNING! Contains 1,1,1,2-Tetrafluoroethane

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### Hazard Phrases

H280	Contains gas under pressure: may explode if heated.
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### Precautionary Phrases

P210	Keep away from heat, sparks, open flames, hot surfaces. – No smoking.
P251	Pressurized container: Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

**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	%
1,1,1,2-Tetrafluoroethane (HFC-134a)	811-97-2	1212-377-0	Not Applicable	Compressed Gas (H280)	96 – 99
Dimethyl ether	115-10-6	204-065-8	F+, R12	Extremely Flammable Gas Category 1 (H220) Compressed Gas (H280)	1 - 4

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

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

**Eyes:** Do not rub eyes. Immediately flush eyes with plenty of water for at least 20 minutes, holding eyelids open to assure thorough rinsing. For frostbite, water should be lukewarm, not hot. Get medical attention if irritation persists.

**Skin:** Promptly flush skin with water until all the chemical is removed. If irritation develops or persists, get medical attention. If there is evidence of frostbite, bathe (do not rub) with lukewarm (not hot) water and get immediate medical attention.

**Inhalation:** If symptoms occur, remove person to fresh air. If irritation or pulmonary symptoms develop, consult a physician.

**Ingestion:** Ingestion is unlikely with this product, however if it occurs, DO NOT induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having

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convulsions. Get immediate medical attention.

**Notes to Physicians:** Because of possible disturbances of cardiac rhythm, catecholamine drugs such as adrenaline or epinephrine should be used with special caution only in situations of emergency life support. Treatment of overexposure should be directed at the control of symptoms and the clinical conditions.

- 4.2 **Most Important symptoms and effects, both acute and delayed:** May cause cryogenic burns or injury to skin and eyes. May cause eye and skin irritation. Overexposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result from exposure. High concentrations may displace oxygen available for breathing.
- 4.3 **Indication of any immediate medical attention and special treatment needed:** In case of frostbite, get immediate medical attention if symptoms persist.

### SECTION 5: FIRE FIGHTING MEASURES

- 5.1 **Extinguishing Media:**  
Use any media that is appropriate for the surrounding fire.
- 5.2 **Special Hazards Arising from the Substance or Mixture**  
**Unusual Fire and Explosion Hazards:** This material is not flammable at ambient temperatures and atmospheric pressure. However, this material will become combustible when mixed with air under pressure and exposed to strong ignition sources. Contact with certain reactive metals may result in the formation of explosive or exothermic reactions under specific conditions (e.g. very high temperatures and/or appropriate pressures).  
**Hazardous Decomposition Products:** May produce hydrochloric and hydrofluoric acid and possibly carbonyl halides.
- 5.3 **Advice for Fire-Fighters:**  
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. Use shielding to protect against bursting cans.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal Precautions, Protective Equipment and Emergency Procedures:**  
Wear appropriate protective equipment. Avoid skin contact with leaking liquid (risk of frostbite). Ventilate the area.
- 6.2 **Environmental Precautions:**  
Prevent release to environment, and recover material if possible. Report spill as required by local and federal regulations.
- 6.3 **Methods and Material for Containment and Cleaning Up:**  
Large Spill: Not sold in large quantities.  
Small Spill: Place leaking container in well ventilated area and allow pressure to release.
- 6.4 **Reference to Other Sections:**  
Refer to Section 8 for personal protective equipment, and Section 13 for disposal

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information.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for Safe Handling:

Avoid breathing gas and liquid contact with eyes, skin, or clothing. Do not puncture or drop cans, expose them to open flame or excessive heat. Protect from sunlight and do not expose to temperatures above 120F. Do not pierce or burn containers, even empty. Do not spray on naked flame or any incandescent material.

#### 7.2 Conditions for Safe Storage, Including any Incompatibilities:

Store in a cool, well-ventilated area out of direct sunlight. Protect from physical damage.

#### 7.3 Specific end use(s):

Compressed Air for Cleaning Office Equipment

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control Parameters:

Chemical Name	Exposure Limits
1,1,1,2-Tetrafluoroethane (HFC-134a) United States United Kingdom Australia Germany	1000 ppm TWA AIHA WEEL 1000 ppm TWA 1000 ppm TWA 1000 ppm TWA, 8000 ppm STEL
Dimethyl Ether United States United Kingdom Australia Germany European Union	1000 ppm TWA AIHA WEEL 400 ppm TWA, 500 ppm STEL 400 ppm TWA, 500 ppm STEL 1000 ppm TWA, 8000 ppm STEL 1000 ppm TWA

#### 8.2 Exposure Controls:

**Engineering Controls:** None required with normal use.

**Respiratory Protection:** Not required under normal use conditions.

**Skin Protection:** Not required under normal use conditions.

**Eye Protection:** Not required under normal use conditions.

**Other:** Not required for normal use conditions.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic Physical and Chemical Properties:

<b>Appearance:</b> Colorless gas.	<b>Vapor Density:</b> 3.5 (Air = 1)
<b>Odor:</b> Faint ethereal	<b>Specific Gravity:</b> Not determined
<b>Odor Threshold:</b> Not determined	<b>Water Solubility:</b> Negligible

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<b>pH:</b> Neutral	<b>Octanol/Water Partition Coefficient:</b> Not determined
<b>Melting Point/Freezing Point:</b> -149.8°F (-101°C)	<b>Autoignition Temperature:</b> > 750°F (399°C)
<b>Boiling Point:</b> -14.8°F (-26°C)	<b>Decomposition Temperature:</b> Not determined
<b>Flash Point:</b> None	<b>Viscosity:</b> Not applicable
<b>Evaporation Rate:</b> > 1	<b>Explosion Properties:</b> Not explosive (Excessive heat may cause canister to <u>rupture</u> violently)
<b>Flammable Limits:</b> LEL: Not applicable UEL: Not applicable	<b>Oxidizing Properties:</b> Not determined
<b>Ignition Distance Test:</b> No ignition	<b>Enclosed Space Ignition Test:</b> Non-Flammable
<b>Vapor Pressure:</b> Not applicable	<b>VOC:</b> 3%

### 9.2 Other Information:

None

## SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

Not reactive under normal conditions of use. Reactive under specific conditions: such as very high temperatures and/or appropriate pressures.

#### 10.2 Chemical Stability:

Stable.

#### 10.3 Possibility of Hazardous Reactions:

Any source of high temperature, such as lighted cigarettes, flames, hot spots, welding may yield toxic and/or corrosive decomposition products.

#### 10.4 Conditions to Avoid:

Do not mix with oxygen or air above atmospheric pressure. Any source of high temperature.

#### 10.5 Incompatible Materials:

Freshly abraded aluminum surfaces (may cause strong exothermic reaction). Chemically active metals: potassium, calcium, powdered aluminum, magnesium, and zinc.

#### 10.6 Hazardous Decomposition Products:

May produce hydrochloric and hydrofluoric acid and possibly carbonyl halides.

## SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on Toxicological Effects:

**Eyes:** Liquid contact can cause irritation. May cause frostbite.

**Skin:** May cause dryness or defatting. Liquid contact could cause frostbite.

**Ingestion:** Although ingestion is unlikely, discomfort in the gastrointestinal tract would

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result from rapid evaporation (boiling) of the material, and consequent evolution of gas. In addition, some of the effects of inhalation would be expected. Necrosis from freezing of tissue could occur.

**Inhalation:** May cause drowsiness and dizziness. At high levels, cardiac arrhythmia may occur. High concentrations may dilute oxygen in the air resulting in asphyxiation. Non-occupational exposure and accidental or abusive inhalation of aerosols /due to Fluorocarbon propellants/ have also been documented, the main symptoms being CNS depression and cardiovascular reactions.

### **Acute Toxicity Values:**

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.

LC50: >500,000 ppm/4 hr	Rat	Inhalation
Cardiac Sensitization Threshold: 80,000 ppm	Dog	Inhalation
Teratogenic NOEL: 40,000 ppm	Rat and Rabbit	Inhalation

**Irritation:** No data available. Not classified as an eye irritant.

**Corrosivity:** No data available. May cause frostbite.

**Sensitization:** This product is not expected to cause sensitization. None of the components are respiratory or skin sensitizers.

### **Specific Target Organ Toxicity:**

Single Exposure: None known.

Repeat Exposure: None known.

**Carcinogen Status:** Not listed as carcinogens by OSHA, ACGIH, IARC, NTP, or the EU Dangerous Substances Directive.

**Germ Cell Mutagenicity:** No data available.

**Toxicity for Reproduction:** This product is not a reproductive hazard.

## SECTION 12: ECOLOGICAL INFORMATION

### **12.1 Toxicity:**

No data available.

### **12.2 Persistence and Degradability:**

Product is a gas at room temperature; therefore, it is unlikely to remain in water.

### **12.3 Bioaccumulative Potential:**

Will not bioconcentrate in fish and aquatic organisms.

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### 12.4 Mobility in Soil:

If released to soil, 1,1,1,2-tetrafluoroethane will rapidly volatilize from either moist or dry soil to the atmosphere. It will display moderate to 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	UN1950	Aerosols	2.2	N/A	No
EU ADR/RID	UN1950	Aerosols	2.2	N/A	No
IATA:	UN1950	Aerosols	2.2	N/A	No
IMDG	UN1950	Aerosols	2.2	N/A	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:** All of the components are listed on the TSCA inventory.

**Canadian Environmental Protection Act:** All of the ingredients are listed on the Canadian Domestic Substances List.

**EU Inventory:** All of the components of this product are listed on the European Inventory of New and Existing Chemical Substances (EINECS) inventory.

**Australian Regulations:** All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances (AICS).

**Chinese Regulations:** All of the ingredients are listed on the Chinese chemical inventory.

**Korean Regulations:** All of the components of this product are listed on the Korean Existing

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Chemical List (KECL).

**Philippine Regulations:** All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

### U.S. REGULATIONS

**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:** 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:** Class A (Compressed Gas), Class D - Division 2 - Subdivision B - (Toxic material causing other toxic effects)

**German WGK:** Not determined.

**15.2 Chemical Safety Assessment:**  
Not required

### 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):

H220 Extremely flammable gas.  
H280 Compressed Gas: may explode if heated.

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

F+ Extremely flammable  
R12 Extremely flammable

**SDS Prepared By:** Chemical Review Board  
**WHMIS Reviewed** July 31, 2014

**Revision Summary:** Classification change. Address change.