

SDS Number:	277, REV A PITNEY BOWES, INC.	Effective Date: Revised Date:	April 20, 2007
Product Name:	Pitney Bowes Duster	Page:	1 of 6

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE					
COMPANY/UNDERTAKING	COMPANY/UNDERTAKING				
Product Name:	Pitney Bowes Duster				
Reorder Number:	903-K, CK0-2, CK0-3	903-K, 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				
		International: 00 44 1279 449479			
Emergency/Chemtrec:	800-424-9300	00-1-703-527-3887			
	North America International (collect call)				
MSDS Prepared By:	Chemical Review Board				
WHMIS Reviewed	April 20, 2007				

SECTION 2 – HAZARDS IDENTIFICATION		
Emergency Overview:	Colorless gas with a faint ethereal odor. Non-flammable material. Contents under pressure. Heated can may rupture. May cause eye and skin irritation. Liquid may freeze tissues. Overexposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result from exposure. High concentrations of vapor may reduce oxygen available for breathing. May decompose on contact with flames or very hot metal surfaces to produce toxic and corrosive materials.	
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)
1,1,1,2-Tetrafluoroethane (HFC-134a)	811-97-2 / 1212-377-0	100	None

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

SECTION 4 - FIRST AID N	MEASURES
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.
Ingestion:	Ingestion is unlikely with this product, however if it occurs, DO NOT

Number:	277, REV A PITNEY BOWES, INC.	Effective Date: Revised Date:	April 20, 2007
Product	Pitney Bowes Duster	Page:	2 of 6
Name:			

SECTION 4 – FIRST AID MEASURES		
	induce vomiting. If conscious, give 2 glasses of water. Never give	
	fluids or induce vomiting if the victim is unconscious or having	
	convulsions. Get immediate medical attention.	
Inhalation:	If symptoms occur, remove person to fresh air. If irritation or	
	pulmonary symptoms develop, consult a physician.	
Notes To Physician:	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.	

SECTION 5 – FIRE FIGHTING PROCEDURES		
Extinguishing Media:	Use any media that is appropriate for the surrounding 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. Protect against bursting cans.	
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).	
Known or Anticipated Hazardous	May produce hydrochloric and hydrofluoric acid and possibly carbonyl	
Products of Combustion:	halides.	

SECTION 6 – ACCIDENTAL RELEASE MEASURES		
Accidental Release Measures:	Wear appropriate personal protective equipment. Ventilate the area and eliminate ignition sources and electric arcs.	
Personal Precautions:	Avoid contact with eyes.	
Environmental Precautions:	Avoid release to the environment.	
Methods for Cleanup:		
Large Spill:	Evacuate unprotected personnel. Protected personnel should remove ignition sources and shut off leak, if without risk, and provide ventilation. Unprotected personnel should not return until the air has been tested and determined safe, including low-lying areas.	
Small Spill:	Allow gas to dissipate in a well-ventilated area.	

SECTION 7 – HANDLING AND STORAGE		
Handling:	Avoid contact with eyes and skin. Avoid breathing vapors and mists. Use with adequate ventilation. Keep away from heat sources, electric arcs and sources of ultra-violet light. Contents under pressure. Do not drop, puncture or incinerate container.	
Storage:	Store in a cool, well ventilated area at temperatures below 120°F. Do not store in direct sunlight Keep out of the reach of children.	
Other Precautions:	None required.	

Number:	277, REV A PITNEY BOWES, INC.	Effective Date: Revised Date:	April 20, 2007
Product Name:	Pitney Bowes Duster	Page:	3 of 6

SECTION 8 - Exposure Controls & Personal Protection		
Occupational Exposure Limits:		
1,1,1,2-Tetrafluoroethane (HFC-134a United States	1000 ppm TWA AIHA WEEL	
United Kingdom	1000 ppm TWA UK WEL	
Engineering Controls:	None required with normal use.	
Ventilation Requirements:	General office ventilation is adequate under normal use conditions.	
Personal Protective Equipment:		
Eye/Face Protection:	Wear safety glasses or goggles.	
Skin Protection:	None required under normal use conditions.	
Respiratory Protection:	If ventilation is insufficient, wear suitable supplied air respiratory protection. Respirator selection and use must comply with all applicable regulations.	
Other Protective Clothing or Equipment:	None required under normal use conditions.	

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance:	Colorless gas.	
Boiling Point:	-15.1°F (-26.2°C)	
Freezing Point:	-149.8°F (-101°C)	
Octanol/Water Partition	1.06	
Coefficient:		
Odor:	Faint ethereal	
Odor Threshold:	Not available	
Percent Volatile:	100%	
pH Value:	Neutral	
Physical State:	Gas	
Reactivity in Water:	None	
Solubility in Water:	Negligible	
Specific Gravity or Density	1.22	
(Water=1):		
Vapor Density:	3.5 (air=1)	
Vapor Pressure:	85.8 psi @ 70°F (21°C)	
Volatile Organic Compounds:	0%	
Flammable Limits in Air (% by	Not Applicable	
Volume):		
Flash Point:	None	
Autoignition Temperature:	>750°F (399°C)	

SECTION 10 – STABILITY AND REACTIVITY		
Stability:	Stable	
Incompatibility With Other	Do not mix with oxygen or air above atmospheric pressure. Any source	
Materials:	of high temperature, such as lighted cigarettes, flames, hot spots,	
	welding may yield toxic and/or corrosive decomposition products.	
	Freshly abraded aluminum surfaces (may cause strong exothermic	

Number: I	277, REV A PITNEY BOWES, INC.	Effective Date: Revised Date:	April 20, 2007
Product Name:	Pitney Bowes Duster	Page:	4 of 6

SECTION 10 – STABILITY AND REACTIVITY		
reaction). Chemically active metals: potassium, calcium, powdered		
aluminum, magnesium, and zinc.		
Hazardous Decomposition	May produce hydrochloric and hydrofluoric acid and possibly carbonyl	
Products:	halides.	
Hazardous Polymerization:	Will not occur.	

SECTION 11 – TOXICOLOGICAL	L INFORMA	ΓΙΟΝ		
Relevant Routes of Exposure:	Skin	contact, inhalation	, ingestion, eyes	
Potential Health Effects:				
Eyes: Liquid contact can cause irritation, which may be severe. Mist irritate.				
Skin: Irr		rritation or dermatitis could result from a defatting action on tissue.		
	Liquid contact could cause frostbite.			
Ingestion:	would	Although ingestion is unlikely, discomfort in the gastrointestinal tract would 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:	in air asphy respir Very l	This material has low acute toxicity in animals. When oxygen levels in air are reduced to 12-14% by displacement, symptoms of asphyxiation, loss of coordination, increased pulse rate and deeper respiration will occur. At high levels, cardiac arrhythmia may occur. Very high concentrations may reduce oxygen levels in the air resulting in asphyxiation.		
			eart disorders may be aggravated by prolonged	
Aggravated By Exposure: exposure to this product.				
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 data reported below is the available data for the product com obtained from the published literature.		he available data for the product components	
Value	ANIMAL	ROUTES	COMPONENTS	
LC50: >500,000 ppm/4 hr	Rat	Inhalation	1,1,1,2-Tetrafluoroethane	
Cardiac Sensitization Threshold: 80,000 ppm	Dog	Inhalation	1,1,1,2-Tetrafluoroethane	
Teratogenic NOEL: 40,000 ppm	Rat and Rabbit	Inhalation	1,1,1,2-Tetrafluoroethane	

SECTION 12 - ECOLOGICAL INFORMATION	
Ecological Information: Degradability (BOD): This product is a gas at room temperature,	
therefore, it is unlikely to remain in water	

Number:	277, REV A PITNEY BOWES, INC.	Effective Date: Revised Date:	April 20, 2007
Product Name:	Pitney Bowes Duster	Page:	5 of 6

SECTION 13 - DISPOSAL CONSIDERATIONS		
Disposal Considerations:	sposal Considerations: Dispose in accordance with local, state or provincial and federal or	
national regulations. Do not puncture or incinerate containers.		

SECTION 14 - TRANSPORT INFORMATION		
U.S. DOT		
Proper Shipping Name:	Consumer Commodity, ORM-D, DOT-SP 10232	
	Note: Must have a copy of the DOT-SP-10232 with each shipment.	
AIR - ICAO OR IATA		
Proper Shipping Name:	1,1,1,2-Tetrafluoroethane	
Hazard Class:	2.2	
ID Number:	UN3159	
Packing Group:	Not applicable	
Hazard Labels:	Non-Flammable Gas	
Packing Instructions:	200	
Special Provisions Code:	None	
-	WATER - IMDG	
Proper Shipping Name:	1,1,1,2-Tetrafluoroethane	
Hazard Class:	2.2	
ID Number:	UN3159	
Packing Group:	Not applicable	
Hazard Labels:	Non-Flammable Gas	

SECTION 15 - REGULATORY INFORMATION		
EU Regulations:	EU: All the components are listed on the EINECS inventory.	
EU Labeling:	Pressurized container. Protect from sunlight and do not expose to	
	temperatures exceeding In case of contact with eyes, rinse	
	immediately with plenty of water and seek medical advice.	
Canadian Regulations:	CEPA: All of the components are listed on the Canadian DSL.	
	WHMIS: Class A, Compressed Gas; 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.	
Philippine Regulations:	All of the components are listed in the Philippine PICCS	
	inventory.	
China Regulations:	All of the components are listed on the Inventory of Existing Chemical	
	Substances in China.	
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): None	
	SARA 311/312 Hazards: Acute Health, Pressure	
	TSCA: All the components of this product are listed in the EPA TSCA	
	Inventory.	

PITNEY BOWES, INC.	Effective Date: Revised Date:	April 20, 2007
Pitney Bowes Duster	Page:	6 of 6
)]		Revised Date:

SECTION 15 - REGULATORY INFORMATION	
US State Regulations: This product does not contain any chemicals subject to California	
Proposition 65.	

SECTION 16 - OTHER INFORMATION	
NFPA Codes:	
Health:	2
Flammability:	1
Reactivity:	0
HMIS Codes:	
Health:	1
Flammability:	1
Reactivity:	0
Protection:	
EU Classes and Risk Phrases for	None
Reference (See Sections 2 and 3):	
Other Information:	Keep out of reach of children.