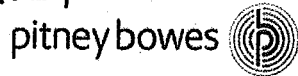


4/23/2024



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

1.1 Product Identifier

Trade Name: Pitney Bowes Dust Remover
Reorder Number: SL-CKA01H

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

Product Use: Cleaning Office Equipment.

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer:

| | | |
|---|--|---|
| US Facility: Pitney Bowes Inc. 27 Waterview Drive Shelton, CT 006484 United States | UK Facility: Building 5 Trident Place Hatfield Business Park Mosquito Way Hatfield Hertfordshire, AL10 9UJ United Kingdom | Canada Distributer: Pitney Bowes Ltd. 5500 Explorer Drive Mississauga, Ontario L4W 5C7 Canada |
|---|--|---|

Information Phone Number:
 800-243-7824 +44(0) 8705 252 525 905-619-7861

E-mail: ehs@pb.com

SDS Website: www.pb.com/sds

1.4 Emergency Telephone Number

| | | |
|------------------------------------|--------------------------------------|---|
| Emergency Spill Information | 203-922-5340 <i>North America</i> | 00-1-203-922-5340 <i>International</i> |
|------------------------------------|--------------------------------------|---|

SDS Date of Preparation: December 04, 2020

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008):
GHS Classification OSHA Hazcom 2012:

| | | |
|------------------------------------|----------------|----------------------|
| Physical: | Health: | Environmental |
| Gas Under Pressure; Compressed Gas | Non-Hazardous | Non-Hazardous |

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2.2 Label Elements:



WARNING! Contains Trans-1,3,3,3-Tetrafluoroprop-1-Ene

Hazard Phrases

| | |
|------|---|
| H229 | Pressurized container: May burst if heated. |
| H280 | Contains gas under pressure: may explode if heated. May displace oxygen and cause rapid suffocation. |

Precautionary Phrases

| | |
|-----------|---|
| P211 | Do not spray on an open flame or other ignition source. |
| 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. |
| P501 | Dispose of contents and container in accordance with local regulations. |

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

| Chemical Name | CAS# | EINECS# | GHS Classification Regulation (EC) No 1272/2008 | % |
|-------------------------------------|------------|-----------|--|-----|
| Trans-1,3,3,3-Tetrafluoroprop-1-Ene | 29118-24-9 | 471-480-0 | Gas Under Pressure; Compressed Gas (H280) | 100 |

See Section 16 for further information on GHS Classification.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eyes: Flush eyes with plenty of water for at several 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. 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 convulsions. Get medical attention.

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Notes to Physicians: 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 mild eye and skin irritation. Overexposure may cause dizziness and loss of concentration. At higher levels, Central Nervous System (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 medical attention.

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: Thermal decomposition or combustion may liberate Pyrolysis products containing fluoride, Fluorocarbons, and Hydrogen Fluoride.
- 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:**
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 information.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Avoid breathing gas or spray. Avoid 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.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Store in a cool, well-ventilated area out of direct sunlight. Protect from physical damage.
U.F.C. (NFPA 30B) Level 1 Aerosol

7.3 Specific end use(s):

Cleaning Office Equipment.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

| Chemical Name | Exposure Limits |
|--|---|
| trans-1,3,3,3-Tetrafluorpropene Germany Manufacturer | 1000 ppm TWA, 2000 ppm STEL DFG MAKs 800 ppm TWA OEL |

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:

| | |
|---|---|
| Appearance: Colorless gas. | Vapor Density: 4.0 (Air = 1) |
| Odor: Faint ethereal | Specific Gravity: 1.21 (as liquid) |
| Odor Threshold: Not determined | Water Solubility: Negligible |
| pH: Not applicable | Octanol/Water Partition Coefficient: log Pow 1.6 |
| Melting Point/Freezing Point: Not determined | Autoignition Temperature: 694.4°F (368°C) |
| Boiling Point: -2.2°F (-19°C) | Decomposition Temperature: Not determined |
| Flash Point: Not determined | Viscosity: Not applicable |
| Evaporation Rate: Not applicable | Explosion Properties: Not explosive (Excessive heat may cause canister to rupture violently) |
| Flammable Limits: LEL: Not applicable UEL: Not applicable | Oxidizing Properties: Not determined |
| Ignition Distance Test: No ignition | Enclosed Space Ignition Test: Non-Flammable |

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| | |
|--|-----------------------------|
| Vapor Pressure: 4.27 hPa @ 20°C | VOC: Not applicable. |
|--|-----------------------------|

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:

Reactions with alkali metals.

10.6 Hazardous Decomposition Products:

May produce 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 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 in 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:

LC0: >207,000 ppm/4 hr

Cardiac Sensitization Threshold: No effects

Teratogenic NOEL: 40,000 ppm

Rat

Dog

Rat and Rabbit

Inhalation

Inhalation

Inhalation

Eye Irritation / Damage: Based on available data, the classification criteria are not met.

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Skin Irritation / Corrosion: Based on available data, the classification criteria are not met. Not a skin irritant. May cause frostbite.

Sensitization: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity:

Single Exposure: Based on available data, the classification criteria are not met.

Repeat Exposure: Based on available data, the classification criteria are not met.

Carcinogen Status: Not listed as carcinogens by OSHA, ACGIH, IARC, NTP, or EU CLP.

Germ Cell Mutagenicity: Based on available data, the classification criteria are not met.

Toxicity for Reproduction: Based on available data, the classification criteria are not met.

Aspiration Hazard: Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

LC0: Cyprinus carpio (Carp) >117 mg/l/ 96hr.

EC50: Daphnia magna (Water flea) >160 mg/l/ 48hr.

12.2 Persistence and Degradability:

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

12.3 Bioaccumulative Potential:

No data available.

12.4 Mobility in Soil:

No data available.

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 | UN1956 | Compressed Gas n.o.s. | 2.2 | N/A | No |

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| | | | | | |
|-------------------|--------|---------------------------------------|-----|-----|----|
| | | (trans-1,3,3,3-Tetrafluoroprop-1-ene) | | | |
| 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.

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

Japanese Regulations: All of the ingredients of this product are listed on the Japanese Existing and New Chemical Substances Inventory (ENCS).

Korean Regulations: All of the components of this product are listed on the Korean Existing Chemical List (KECL).

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

Chinese Regulations: All of the ingredients are listed on the Chinese Chemical Inventory of Existing Chemical Substances (IECSC).

New Zealand Regulations: All of the components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC).

Taiwan Regulations: All of the components of this product are listed on the Taiwan Chemical Substance Inventory (TCSI).

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: As per OSHA GHS classification in Section 2 of this SDS.

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

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INTERNATIONAL REGULATIONS

German WGK: 1

15.2 Chemical Safety Assessment:
Not required

| |
|--------------------------------------|
| SECTION 16: OTHER INFORMATION |
|--------------------------------------|

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

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

H280 Contains gas under pressure; may explode if heated.

Date of current revision: December 04, 2020

Revision Summary: Combine EU & US versions to single SDS. Changed to all Sections.

Date of previous revision: April 20, 2018