



March, 2013 3507, 3508, 3509, 3522

#### SECTION 1: PRODUCT IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT (TRADE) NAME: PC Duster 2, OfficeDuster 3, OfficeDuster Jr.

PRODUCT IDENTIFICATION NUMBER(S): RR3507, RR3508, RR3509, RR3522

CHEMICAL NAME AND SYNONYMS: 1,1,1,2 - Tetrafluoroethane

CHEMICAL FORMULA: CF<sub>3</sub>CH<sub>2</sub>F

EMERGENCY TELEPHONE NUMBERS: Read/Right: (904) 482-0091

CHEMTREC (Transportation): (800) 424-9300

#### SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Manufacturer recommends an 8 hour TWA of 1000ppm.

# SECTION 3: HAZARDS IDENTIFICATION

Product is under pressure. Do not puncture or incinerate. Avoid exposure to temperatures above  $120^{\circ}F$  or open flame. Excessive inhalation of vapors may be fatal. Vapors reduce available oxygen in air. Reduced oxygen levels to 12-14% produce symptoms of asphyxiation i.e. drowsiness, loss of coordination, increased pulse rate, narcosis, cardiac sensitization and deeper respiration. Material can induce cardiac sensitization to epinephrine and cardiac arrhythmia. Skin irritant. Direct exposure of skin to liquid may cause frostbite. Eye irritant.

Carcinogenicity (OSHA/NTP/IARC/ACGIH): Not Listed

Medical Conditions Aggravated by Exposure: Anemia, asthma, dermal sensitivity and

low blood pressure.

### SECTION 4: FIRST AID INFORMATION

EYE CONTACT: Flush with water for 15 minutes, including under eyelids. Get Medical help.

SKIN CONTACT: Flush with water. Treat for frostbite if necessary by bathing area with

lukewarm water. Get medical attention.

INHALATION: Remove to fresh air. Keep at rest. Restore and/or support breathing as

needed. Get prompt Medical attention.

INGESTION: Ingestion is not considered a potential route of exposure.

# SECTION 5: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (TCC): NA

FLAMMABLE LIMITS (% BY VOLUME): LEL: NA UEL: NA

AUTOIGNITION TEMPERATURE °F (°C): NA

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical or foam. Water may be used to cool containers exposed to the fire to reduce pressure buildup.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Cylinders are under pressure and may rupture under fire conditions. Decomposition may produce hydrochloric and hydrofluoric acid. Exposure to heat or prolonged exposure to sun may cause bursting

NFPA RATING: HEALTH (1)

FLAMMABILITY (0)

REACTIVITY (0)

NA = Not Available

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Ventilate area, especially low places where heavy vapors may collect. Remove open flames. Isolate hazard until all gas has dispersed. Water spray may be used to reduce vapors

#### SECTION 7: HANDLING AND STORAGE

Store in a clean, cool, ventilated area away from sources of ignition and oxidizing agents. Maintain temperature at less than  $120^{\circ}F$ . Store as a Level 1 Aerosol (NFPA 30B). Over heating, pressurizing, or rusting can cause can to burst resulting in serious personal injury. Empty containers retain residue; follow all label warnings even after container is empty. Dispose of empty container according to regulations. Do not reuse the container

# SECTION 8: EXPOSURE CONTROL - PERSONAL PROTECTION

Normal ventilation for standard procedures is generally adequate. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low places. Avoid inhalation of vapors and repeated or prolonged contact of liquid with skin or clothing. Do not take internally. Lined nitrile or natural rubber gloves and chemical splash goggles should be worn when handling liquid. Under normal use of this product, no respiratory protection is required. Self-contained breathing apparatus is required if a large release occurs.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (°F(°C):	-15.7(-26)	% VOLATILE BY VOLUME @ 25°C:	100
VAPOR PRESSURE(psig @ 70°F):	70	EVAPORATION RATE (BUTYL ACETATE = 1):	Product is Gas
VAPOR DENSITY (AIR = 1):	4.34	FORM:	Liquified Gas
% SOLUBLE IN WATER:	Negigible	ODOR:	ETHEREAL
SPECIFIC GRAVITY (G/CC @ $25^{\circ}$ C):	1.21	APPEARANCE:	CLEAR

#### SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable unless exposed to open flames or
	high temperatures.
HAZARDOUS POLYMERIZATION:	Will not occur under normal conditions of use.
INCOMPATIBILITIES/CONDITIONS TO AVOID:	Incompatible with strong oxidizing agents, chlorine, and chemically active metals, such as: Alkali or alkaline earth metals-powdered Al, Zn, etc.
HAZARDOUS DECOMPOSITION PRODUCTS:	Can be decomposed by high temperatures (open flames, glowing metal surfaces, etc.) forming, hydrofluoric acid, and possibly carbonyl halides.

### SECTION 11: TOXICOLOGICAL INFORMATION

Not Available

#### SECTION 12: ECOLOGICAL INFORMATION

Not Available

### SECTION 13: DISPOSAL CONSIDERATIONS

Follow Federal, State and Local regulations.

# SECTION 14: TRANSPORT INFORMATION

#### DOT CLASSIFICATION:

Proper Shipping Name: Consumer Commodity
Hazard Class: ORM-D
UN Number: Does not apply

UN Number: Does not apply Packing Group: Does not apply Hazard Labeling: ORM, ORM-D-Air

IATA/ICAO CLASSIFICATION:

Proper Shipping Name: Consumer Commodity
Hazard Class: Class 9, Miscellaneous

UN Number: ID#8000

Packing Group: Does not apply

Hazard Labeling: Class 9, Miscellaneous

IMDG CLASSIFICATION:

Proper Shipping Name: 1,1,1,2 - Tetrafluoroethane

UN Number: UN3159

Hazard Class: Class 2.2, Nonflammable Gas

IMDG Page#:
2181

Packing Group: Does not apply

Flash Point (°C): None Marine Pollutant: No

#### SECTION 15: REGULATORY INFORMATION

SARA TITLE III REPORTING:

Toxic Chemical(Section 313):

Extremely Hazardous Substance

Not Listed

(Section 302, 304, 311,312):
Hazard Class: Chronic Health No

Acute Health Yes
Fire Hazard No
Pressure Hazard Yes
Reactivity Hazard No

TSCA INVENTORY STATUS:

Listed in the TSCA

inventory

# SECTION 16: OTHER INFORMATION

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