



January 2015

1. Identification

Name of the product: **ReadRight PowerDuster**

Product Identification Number(s): RR3530

Recommended use: No-residue spray duster

Use not recommended: Any use contacting skin or subject to inhaling large amount of fumes or exposure to flame.

Company: **Advantus Corporation**

Telephone: 904-482-0091

12276 San Jose Blvd., Ste. 618

Fax number: 904-482-0099

Jacksonville, FL 32223

Emergency: 1-800-327-1237

CHEMTREC (Transportation): 1-800-424-9300

CPR STATEMENT: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR. This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA). It is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulation.

2. Hazards identification

Emergency Overview

GHS Classification

OSHA Hazards per 29 CFR 1910: OSHA HCS

Flammable Gasses, Category 1 H220 Extremely flammable gas.

Gases under pressure (Compressed gas), H280 Gas under pressure. May explode if heated.

Other hazards which do not result in classification are: None

GHS Label elements, including precautionary statements

Pictogram:



Signal word: Danger

Hazard statements:

H205 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

Inhalation of high concentrations of vapor is harmful and may cause heart irregularities, unconsciousness or death. Intentional misuse or deliberate inhalation may cause death without warning.

Vapor reduces oxygen available for breathing and is heavier than air. Liquid contact can cause frostbite.

H313 May be harmful in contact with skin.

Precautionary statements:

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container. Do not pierce or burn even after use.

P270 Do not eat, drink or smoke while using this product.

P235+ P410 + P403 Keep cool. Protect from sunlight. Store in a well-ventilated place.

Hazards not otherwise classified (HNOC) or not covered by GHS - Asphyxiant

3. Composition / Information on ingredients

Chemical identity: 1,1-Difluoroethane 100%

Common name: HFC 152a

Numbers of identity: CAS #75-37-6

Impurities: None known.

4. First-aid measures

P304+313 +341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a physician.
P302+352 IF ON SKIN: Wash with soap and water. Check for frost bite.
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Check for frostbite. Remove contact lenses if present and easy to do; continue rinsing.
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Most important symptoms and effects, both acute and delayed: Severe eye irritation. Skin irritation. Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used with special caution only in situations of emergency life support.

5. Firefighting measures

Suitable extinguishing equipment:

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Emergency procedures:

Fire and Explosion Hazards:

Aerosol cans may erupt with force at temperatures above 49° C (120° F)

Fire decomposition by-products will include hydrofluoric acid, and possibly carbonyl fluoride.

Avoid contact with these materials, which are toxic and irritating. Evacuate personnel immediately in the event of a fire involving this product.

Extinguishing Media: Water Spray, Water fog, Dry Chemical, Carbon dioxide. "Alcohol" foam.

Cool cans with water spray. If gas exiting can ignites, stop flow of gas. Do not put out fire unless leak can be stopped. Self-contained breathing apparatus (SCBA) is required if containers rupture and contents are released under fire conditions.

6. Accidental release measures

Use personal protective equipment. Avoid breathing, mist or vapors. Ensure adequate ventilation.

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

The chances of a large spill or leak are unlikely in aerosol containers.

If this product is spilled and not recovered, or is recovered as a waste for treatment or disposal, the CERCLA Reportable Quantity is 100 lbs. (Release of an unlisted Hazardous Waste characteristic of ignitability).

7. Handling and storage

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of vapors or mist.

Contents under pressure.

Conditions for safe storage:

Avoid breathing vapors or mist. Keep containers closed. Use only with adequate ventilation. Avoid repeated or prolonged contact with eyes, skin or clothing. Wash thoroughly after handling. Do not store in direct sunlight. Store in cool dry place, away from heat, sparks or flames which may generate toxic decomposition products. Vapors are heavy and may concentrate in low poorly ventilated areas.

8. Exposure controls / personal protection

Information on the system design:

Product is intended for external use only. Stay up wind, out of any spray developed.

Exposure Limits:

1,1-Difluoroethane	CAS #75-37-6
PEL (OSHA)	None Established
TLV (ACGIH)	None Established
AEL (DuPont)	1000 ppm, 8 Hr. TWA
WEEL (AIHA)	1000 ppm, 8 Hr. TWA

Personal protective equipment

Product is a gas which is heavier than air. Avoid breathing vapors.

Protect skin from cold discharge.

Engineering Controls Ground all equipment and cylinders before use. Do not use near any spark producing electrical devices such as paper shredders.

Respiratory Protection: Use only with adequate ventilation. Keep container closed. Use approved NIOSH self-contained or supplied air respirators for emergencies and in situations where air may be displaced by vapors.

Eye Protection: Use chemical protective safety glasses.

Hygiene measures

Wash hands and face before breaks and immediately after handling the product.

Handle in accordance with good industrial hygiene and safety practice.

Protective Clothing:

Where there is potential for skin contact, use appropriate impervious gloves, apron, pants and jacket.

9. Physical and chemical properties

Appearance:	Liquefied Gas	
Odor:	Slight Ethereal	
Odor threshold:	no data available	
pH-value:	no data available	
Melting/ freezing point:	no data available	
Initial boiling point:	-25°C (-13°F)	
Flash point:	<-50°C (<-58°F)	
Evaporation rate:	no data available	
Flammability (solid, gas):	Flammable	
Explosion limits:	LEL/UEL: 3.9-16.9 (% by volume)	
Vapor pressure:	87 psia at 25°C (77°F)	
Vapor density:	2.4 (Air = 1.0) at 25°C (77°F)	
Relative density (water=1.00):	no data available	Auto-ignition temperature: 454°C (849°F)
Solubility:	0.28 WT% @ 25°C (77°F) and 87 psia.	Decomposition temperature: Not available
Partition coefficient: Log Kow =	no data available	Viscosity: no data available
Fire and Explosion Hazards:	Aerosol cans may erupt forcefully at temperatures above 120°F (49°C)	

10. Stability and reactivity

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data.

Conditions to avoid: Open flames and high temperatures.

Materials to avoid: No data.

Hazardous decomposition products: See Section 5 for action by fire.

11. Toxicological information

Routes of Entry: Inhalation.

Oral ALD: >1500 mg/kg in rats

Dermal Toxicity LD 50: No data available for gas.

Inhalation ALC, 4 hr: 383,000 ppm in rats

Eye Irritation (Rabbit) No data.

Dermal Irritation (Rabbit) No data.

Chronic Effects on Humans: No data

This product does not contain a substance at a concentration exceeding OSHA thresholds that has been listed as a carcinogen or potential carcinogen published by NTP, IARC or OSHA.

Reproductive toxicity no data available

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard: no data available

12. Ecological information

Ecotoxicity:
 Aquatic Toxicity: no data available
 Other adverse effects no data available

13. Disposal considerations

Offer surplus and non-recyclable solutions to a licensed disposal company.
 Reclaim by distillation, incinerate, or remove to a permitted waste facility.
 Dispose in accordance with local, state and federal regulations.
 This material may be a RCRA Hazardous waste upon disposal due to the ignitability characteristic.

14. Transport information

DOT (US)
 UN number: 1030 Class: 2.1
 Proper shipping name: 1,1-DIFLUOROETHANE
 Reportable Quantity (RQ): None
 Marine pollutant: No data
 Poison Inhalation Hazard: No data
 May also be classed as a Consumer Commodity ORM-D

15. Regulatory information

SARA 302: None subject to the reporting requirements of SARA Title III, Section 302.
 SARA 313: None that exceed the threshold reporting levels established by SARA Title III, Section 313.
 SARA 311/312 Hazards
 Acute : Yes Chronic : No Fire : Yes Reactivity : No Pressure : Yes
 Right To Know Components: No information

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

This product is a flammable gas as defined by OSHA in 29CFR 1910.1200(c). Use of this product may require compliance with 29CFR 1910.119, Process Safety Management of Highly Hazardous Chemicals. This information must be included in all MSDS that are copied and distributed for this material.

California V.O.C. Data: This product contains 0 grams total VOC per liter.

16. Other information

SDS Preparation date: November 24, 2014. SDS Code: AC RR 3530

Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8, OSHA 29 CFR 1910.1200 and SARA 302/311/312/313.
Immediate	Yes	Yes	Yes	No	
Delayed	No	No	XXX	XXX	
HMIS Hazard ratings: Health 1 Fire 4 Instability 0 Other B (Goggles, gloves)					
Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4					

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Note: The information in this SDS was obtained from current reputable and competent sources. However, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product and to assume liability for loss, injury, damage or expense resulting from improper use of this product.

WHIMIS - Canada

Class A - Compressed Gas Class B-1 - Flammable Gas CEPA DSL: difluoroethane