MATERIAL SAFETY DATA SHEET Essentially Similar to U.S. Department of Labor Form OSHA Revised 07/11/2013 HMIS Health-1 Flammability-4 Physical Hazard -1 Personal Protection x

SECTION I-Product Information

Manufacturer: A.V.W. Inc.	
24 Hour Emergency Phone Number	: 800-424-9300
Product Name: Blow Off Air Duster	152a
Synonym(s): Blow Off Air Duster	
Blow Off Auto Duster	3.5oz
	8oz
Blow Off 152a Duster	3.5oz
	8oz
	10oz
Trade Name:	152a
Chemical Name:	Ethane, 11,-Difluoro
FSPID:	Front 152a
Model No:	Blow Off 3.5 oz. Blow Off 8 oz. Blow Off 10oz
Product Use:	Cleaning
	SECTION II Hazardous Identification
Emorgonov Overview	DANGED
Emergency Overview	DANGER
D. 4 4 ¹ . L. L 4 4 L 14 66 4 .	Flammable gas. Contents under pressure. Containers may explode when heated.
Potential short term health effects	
Routes of exposure	Eye, Skin contact, Inhalation.
Eyes	Contact with liquid may cause frostbite.
Skin	Contact with liquid may cause frostbite.
Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central Nervous system effects
	(headache, dizziness). Vapors may cause dizziness or suffocation.
Ingestion	Not a normal route of exposure.
Target organs	Eyes. Skin. Respiratory system.
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms	Symptoms may include redness, dryness of the skin.
Odor, Color, Grade	Clear, colorless with slight ethereal odor.
General Physical Form	Gas
Immediate health, physical, and env	ironmental hazards:
	Closed containers exposed to heat from fire may build pressure and explode. May cause frostbite. May
	cause target organ effects.
	SECTION III-Composition on Ingredients
Component	CAS = 75-37-6 % by Wt 100% 1 1-DIFLUOROETHANE
component	
	SECTION IV-First Aid Measures
Skin:	Flush with cool water. Wash affected area with soap and water. If signs/symptoms persist, get medical
E	
Eye contact:	immediately flush with large amounts of cool water. Remove contact lenses, if applicable, and continue
T I I <i>A</i>	flushing for 15 minutes. Obtain medical attention immediately.
Inhalation:	If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing
	has stopped, trained personnel should administer CPR immediately.
Ingestion:	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain
	medical attention.
	SECTION V-Firefighting Measures
	Flammable by WHMIS/OSHA criteria. Containers may explode when heated. Autoignition temperature 849
Flammable Properties	°F
Flash Point:	< 50 °F (Details: consumer aerosol does not exhibit a flame projection, therefore it is not determined to be
	flammble as defined in 16 CFR, Section 1500.3(c) (6) (viii).
Flammable Limits-LEL	3.9% volume
Flammable Limits-UEL	16.9% volume
Extinguishing media	
Suitable extinguishing modia	Small Fires: Dry chemical Carbon diovide Water spray Fog
Unsuitable extinguishing media	Not available
Protection of firefightors specific has	rot available
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from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.	
Protective equipment for firefighters Hazardous combustionproducts	Firefighters should wear full protective clothing including self contained breathing apparatus. May include and are not limited to: Oxides of carbon. Fluoride gases.	
Sensitivity to mechanical impact Sensitivity to static discharge	Not available Not available	
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	SECTION VI-Accidental Release Measures	
Accidental Release Measures	Refer to other sections of this MSDS for information regarding physical and health hazard, respiratory	
	protection, ventilation, and personal protective equipment. Evacuate unprotected and untrained personnel	
	from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such	
	as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area	
	with fresh air. Close cylinder. If the cylinder can't be closed, place in a well-ventilated area, preferably an	
	operating exhaust hood, or if necessary outdoors. Dispose of collected material as soon as possible.	
Personal precautions	keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged	
	containers or spilled material unless wearing appropriate protective clothing. Keep people away from and	
	upwind of spill/leak.	
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can	
Mathads for cleaning up	do so without risk. Prevent entry into waterways, sewers, basements or confined areas.	
Methods for cleaning up	chance of a significant spill or leak is unlikely in aerosol containers in the event of such an occurrence	
	absorb spilled material with a non-flammable absorbent such as sand or vermiculite	
	absolb spined material with a non-maintable absolbent such as said of vermicante.	
	SECTON VII-Handling and Storage	
Handling:	Do not eat, drink or smoke when using this product.	
C C	Wash exposed areas thoroughly with soap and water.	
	Contents may be under pressure, open carefully.	
	Keep away from heat, sparks, open flam, pilot lights and other sources of ignition.	
	No smoking while handling this material. Avoid eye contact with vapors, mists, or spray.	
	Avoid breathing mists or aerosols of this product.	
<i>a</i> .	Use good industrial hygiene practices in handling this material.	
Storage:	Do not eat, drink or smoke when using this product.	
	wash exposed areas thoroughly with soap and water.	
	Neep out of reach of children. Do not store at temperatures above $A^{0}C$ (120.2°F)	
	Keen away from heat open flames or other sources of ignition	
	Store away from acids. Keep container in well-ventilated area.	
	SECTION VIII-Exposure Controls/Personal Protection	
Engineering Controls:	Do not use in a confined area or areas with little or no air movement.	
	Use general dilution ventilation and/or control mist, vapor, or spray.	
	If ventilation is not adequate, use respiratory protection equipment	
Personal protective equipment		
Respiratory protection:	Do not breathe vapors. Use with adequate ventilation. Keep container closed.	
	contaminants and in accordance with OSHA regulations:	
	Half face piece or full face pressure demand self-contained breathing apparatus	
Hand protection:	If there is constant skin contact, rubber gloves are recommended.	
Eye/Face protection:	Avoid eye contact with vapors, mists, or spray.	
· ·	The following eye protection(s) are recommended: Safety Glasses with side shields.	
Skin protection:	Wear insulated gloves to protect against frostbite.	
General hygiene considerations:	Handle in accordance with good industrial hygiene and safety practice.	
	When using do not eat or drink.	
	Wash hands and face before breaks and immediately after handling product.	
	SECTION IX Develop and Chamical Properties	
Form	SECTION IA-FILISSICAL AND CHEMICAL FROPERUES	
Form:	colorless	
Odor:	slight, ethereal	
Odor threshold:	Not available	
Ph:	Not available	
Physical state:	Gas	

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Melting point:

Melting point: Boiling point/ Boiling range: Not available

Freezing point:

-25°C (-13.00 °F)

Flash point: Vapor Pressure: Pour Point: Specific gravity: Relative density: Vapour density: Flammability limits in air, Lower, % by volume Flammability limits in air, upper, % by volume Octanol.wate coefficient Solubility (H20) Auto-ignition temperature Percent volatile:

Chemical stability:

Conditions to avoid:

Hazardous decomposition

Possibility of hazardous reactions:

Incompatibility:

Products:

Eye irritation

Inhalation

Ingestion Sensitization

Chronic effects

Carcinogenicity

Mutagenicity Reproductive effects

Teratogenicity Synergistic Materials

Skin

-50°C (-58.00 °F) 599.43 kPa @25°C Not Available 0.91 0.9 g/cc @2°C 2.4 @25°C 3.9 16.9 Not available Slightly 454 °C (849.20 °F) 100

SECTION X-Stability and Reactivity

Stable under recommended storage conditions. Aerosol containers are unstable at temperatures above 49 °C (120.2°F). Alkaline materials. Alkaline earth metals.

May include and are not limited to: Oxides of carbon. Fluoride gases. Hazardous polymerization does not occur.

SECTION XI-Toxicological Information

Contact with liquid may cause frostbite. Contact with liquid may cause frostbite. Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness). Vapors may cause dizziness or suffocation. Not a normal route of exposure. Non-hazardous by WHMIS/OSHA criteria Non-hazardous by WHMIS/OSHA criteria

SECTION X11-Ecological Information

Ecotoxicity	Not available
Environmental effects Product contain	ns no ozone depleting CFCs
Aquatic toxicity	Not available
Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available
Other adverse effects	Not available

SECTION X111-Disposal Considerations

Waste Code:	Not available
Disposal instructions	Review federal, state/provincial, and local government requirements prior to disposal.
Waste from residues/unused	Not available
Contaminated packaging	Not available

SECTION XIV – Transportation Information

U.S Department of Transportation (DOT) International Maritime Organization (IMO)			
Basic shipping requirements:	1, 1-Difluoroethane		
Transportation of Dangerous Goods (TDG – Canada)			
Hazard class	2.1		
UN number	1030		
Additional Information:			
DOT/IMO Label:	FLAMMABLE GAS		
Special Information:	CARGO AIRCRAFT ONLY		
IATA/CAO (Air)			
Basic shipping requirements:			
Proper shipping name:	1, 1-Difluoroethane		

Hazard class:	2.1				
UN number:	1030				
Additional information:					
Maximum net quantity	Cargo aircraft only-150 kg maximum				
Packaging	(Forbidden on passenger aircraft)				
SECTION XV-Regulatory Information					
Occupational Safety and Health Adm	inistration (OSHA)				
29 CFR 1910.1200 hazardous	Yes				
CERCLA (Superfund) reportable qua	intity				
	None				
Superfund Amendments and Reautho	vrization Act of 1986 (SARA)				
Hazard categories	Immediate Hazard Yes				
	Delayed Hazard No				
	Fire Hazard Yes				
	Pressure Hazard Yes				
	Reactivity Hazard No				
Section 302 extremely	No				
hazardous substances					
Section 311 hazardous					
chemical	Yes				
Clean Air Act (CAA)	Not available				
Clean Water Act (CWA)	Not available				
WHMIS status	Controlled				
WHMIS classification	Class A – Compressed Gas, Class B – Division 1 – Flammable Gas				
State regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or				
U	other reproductive harm.				
Inventory name	-				
Country(s) or region	Inventory				
Canada	Domestic Substances List (DSL)				
Canada	Non-Domestic Substances List (NDSL)				
United States &					
Puerto Rico	Toxic Substances Control Act (TSCA) Inventory				
	SECTION XVI-Other Information				
	NFPA Hazard Classification				
Health:	1				
Flammability:	4				
Reactivity:	1				
Physical hazard:	0				
	HMIS Hazard Classification				
Health:	1				
Flammability:	4				
Reactivity:	1				
Protection:	X – See PPE section				