



Material Safety Data Sheet

According to ISO/DIS 11014:2009

Data Sheet No. MSDS 0093USA

Issue No 1

Date: 08-29-13

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: BLOWout 10oz
Product Number: BLOWout-024
Product Use: Air Duster.
Manufacturer/Supplier: SDI 1345 Campus Parkway, Suite A18
Wall Township, NJ 07753 USA
Phone Number: 732-751-9266 Fax: 732-751-9241 Email: sales@sdifire.com
Emergency Phone: Info Trac: Tel: 1-800-535-5053

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER

Flammable gas. Contents under pressure. Containers may explode when heated.

Potential Health Effects:

Likely Routes of Exposure: Skin contact, eye contact, inhalation.

Eye: Contact with liquid may cause frostbite.
Skin: Contact with liquid may cause frostbite.
Ingestion: Not a normal route of exposure.
Inhalation: Excessive intentional inhalation may cause respiratory tract irritation and central Nervous system effects (headache, dizziness). Vapors may cause dizziness or suffocation.

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.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
1,1-difluoroethane	75-37-6	100

Section 4: FIRST AID MEASURES

Skin Contact: Flush with cool water. Wash affected area with soap and water. If signs/symptoms persist, get medical attention.

Eye Contact: Immediately flush with large amounts of cool water. Remove contact lenses, if applicable, and continue 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 5: FIRE FIGHTING MEASURES

Flammable Properties: Flammable by WHMIS/OSHA criteria. Containers may explode when heated. Auto-ignition temperature 849 °F

Flash Point: < 50 °F (Details: consumer aerosol does not exhibit a flame projection, therefore it is not determined to be flammable as defined in 16 CFR Section 1500.3(c) (6) (viii).

Flammable Limits-LEL 3.9% volume

Flammable Limits-UEL 16.9% volume

Means of Extinction:

Suitable Extinguishing Media: Small Fires: Dry chemical. Carbon dioxide. Water spray. Fog.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: May include, and are not limited to: oxides of carbon, Fluoride gases.

Specific hazards arising 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.

Protection of Fire-fighters:

Fire-fighters should wear full protective clothing including self-contained breathing apparatus.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Section 6: 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 aerosol.

If the aerosol 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:

Contain and/or absorb spill with inert material, then place in a suitable container.

Do not flush to sewer or allow to enter waterways.

Use appropriate Personal Protective Equipment (PPE).

Methods for Clean-Up:

Before attempting clean up, refer to hazard data given above. Remove sources of ignition.

Although the 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.

Section 7: HANDLING AND STORAGE

Handling: Do not eat, drink or smoke when using this product.
Wash exposed areas thoroughly with soap and water.
Contents may be under pressure, open carefully.
Keep away from heat, sparks, open flame, 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.
Use good industrial hygiene practices in handling this material.

Storage: Keep out of the reach of children.
Keep container in a well-ventilated place.
Do not store at temperatures above 49 °C / 120 °F.
Keep away from heat, open flames or other sources of ignition.
Store away from acids. Keep container in well-ventilated area.

Section 8: 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.
Select one of the following NIOSH approved respirators based on airborne concentration of 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 is 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 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquefied gas
Color:	Colorless.
Odor:	Slight, ethereal.
Odor Threshold:	Not available.
Physical State:	Gas/Pressurized Liquid.
pH:	Not available.
Physical state:	Gas
Melting point:	Not available
Freezing point:	Not available
Boiling point/	
Boiling range:	-25°C (-13.00 °F)
Flash point:	-50°C (-58.00 °F)
Vapor Pressure:	599.43 kPa @25°C
Pour Point:	Not available
Specific gravity:	0.91

Relative density:	0.9 g/cc @2°C
Vapor density:	2.4 @25°C
Flammability limits in air, Lower, % by volume	3.9
Flammability limits in air, upper, % by volume	16.9
Octanol/water coefficient	Not available
Solubility (H2O)	Slightly
Auto-ignition temperature	454 °C (849.20 °F)
Percent volatile:	100

Section 10: STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Aerosol containers are unstable at temperatures above 49°C (120.2°F).
Incompatibility:	Alkaline materials. Alkaline earth metals.
Hazardous decomposition Products:	May include and are not limited to: Oxides of carbon. Fluoride gases.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.

Section 11: TOXICOLOGY INFORMATION

Eye irritation	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.
Sensitization	Non-hazardous by WHMIS/OSHA criteria
Chronic effects	Non-hazardous by WHMIS/OSHA criteria
Carcinogenicity	Non-hazardous by WHMIS/OSHA criteria
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria
Synergistic Materials	Not Available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity	Not available
Environmental effects	Product contains 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 13: 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 14: TRANSPORTATION INFORMATION

U.S Department of Transportation (DOT) International Maritime Organization (IMO)
Transportation of Dangerous Goods (TDG – Canada)

Basic shipping requirements:

Proper shipping name: 1, 1-Difluoroethane
Hazard class 2.1
UN number 1030

Additional Information:

DOT/IMO Label: FLAMMABLE GAS
Special Information: CARGO AIRCRAFT ONLY
DOT -2Q
DOT-SP11516

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 15: REGULATORY INFORMATION**Occupational Safety and Health Administration (OSHA)**

29 CFR 1910.1200 hazardous: Yes

CERCLA (Superfund) reportable quantity: None

Superfund Amendments and Reauthorization Act of 1986 (SARA):**Hazard categories:**

Immediate Hazard	Yes
Delayed Hazard	No
Fire Hazard	Yes
Pressure Hazard	Yes
Reactivity Hazard	No

Section 302 extremely hazardous substances: No

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 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

16: 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

Revision Status:
1/ New Material Safety Data Sheet

08-29-2013

NOTE:

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