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

1.1 Product identifier
- **Product Name**: BLOWout 10 oz.
- **Trade Name**: BLOW OUT-024
- **Synonym(s)**: 1,1-difluorethane.
- **Chemical Formula**: C₂H₄F₂
- **CAS No.**: 75-37-6
- **EINECS No.**: 200-866-1

1.2 Relevant identified uses of the substance or mixture and uses advised against
- **Identified use(s)**: Aerosol Duster.
- **Uses advised against**: None known.

1.3 Details of the supplier of the Safety Data Sheet
- **Company Identification**: SDi
  1345 Campus Parkway, Suite A18
  Wall Township, NJ 07753 USA.
- **Telephone**: (732) 751 9266
- **Fax**: (732) 751 924
- **E-mail**: sales@sdifire.com

1.4 Emergency telephone number
- **Info Trac**: 1-800-535-5053 (24 hour(s))

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
- **US CFR 1910.1200**: Gases under pressure: Liquefied gas; Contains gas under pressure; may explode if heated.

2.2 Label elements
- **Product Name**: BLOWout 10 oz.
- **Hazard pictogram(s)**: GHS04
- **Signal word(s)**: Warning.
- **Hazard statement(s)**: H280: Contains gas under pressure; may explode if heated.
- **Precautionary statement(s)**: P410+P403: Protect from sunlight. Store in a well-ventilated place.
- **Additional Information**: Pressurized container: Do not pierce or burn, even after use. Do not expose to temperatures exceeding 122°F.

2.3 Other hazards
- **Contact with liquid may cause cold burns/frostbite.**
- **High concentrations may cause asphyxiant.**

2.4 Additional Information
- None.
3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Substances

<table>
<thead>
<tr>
<th>Hazardous ingredient(s)</th>
<th>CAS No.</th>
<th>%W/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1-difluoroethane</td>
<td>75-37-6</td>
<td>&gt; 99</td>
</tr>
</tbody>
</table>

3.2 Additional Information

None.

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

**Inhalation**
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep patient warm. Apply artificial respiration if necessary. Obtain medical attention.

**Skin Contact**
Wash with plenty of soap and water. If frostbite, call a physician. Do not remove clothing if it sticks to the skin.

**Eye Contact**
Flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, obtain medical attention.

**Ingestion**
Unlikely route of exposure.

4.2 Most important symptoms and effects, both acute and delayed

**Skin Contact:** Frostbite.

**Inhalation:** High concentrations: Asphyxiation, Headache, dizziness, nausea and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

Pressurized container: May burst if heated.

5.1 Extinguishing Media

**Suitable Extinguishing Media**
Extinguish with carbon dioxide, dry chemical, foam or waterspray.

**Unsuitable Extinguishing Media**
None known.

5.2 Special hazards arising from the substance or mixture

Heating may cause pressure rise with risk of bursting. Decomposes in a fire giving off toxic fumes: Hydrogen fluoride, Carbon monoxide, Carbon dioxide.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep fire exposed containers cool by spraying with water. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.
6. SECTION 6: ACCIDENTAL RELEASE MEASURES

The product is an aerosol. It is unlikely to present spillage or leakage hazard. In case of rupture, released content should be contained as any other solvent spill.

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Stop leak if safe to do so. Wear protective gloves.

6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up

Collect mechanically and dispose of according to Section 13. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery. Containers must not be punctured or destroyed by burning, even when empty.

6.4 Reference to other sections

See Also Section: 8, 13.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Protect from sunlight. Store in a well-ventilated place.:

- Storage Temperature: Do not expose to temperatures exceeding 122°F.
- Storage Life: Stable under normal conditions.
- Incompatible materials: Acids, Alkalis and Strong oxidizing agents.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1-difluoroethane</td>
<td>75-37-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>None assigned</td>
</tr>
</tbody>
</table>

8.2 Appropriate engineering controls

Provide adequate ventilation. Local exhaust recommended. Do not use in confined spaces.

8.3 Individual protection measures, such as personal protective equipment (PPE)

- Eye/face protection
  - If eye contact is likely: Wear protective eyewear (goggles, face shield, or safety glasses).

- Skin protection (Hand protection/ Other)
  - Wear suitable gloves if prolonged skin contact is likely. Gloves: Neoprene, Leather.

- Respiratory protection
  - No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment.

- Thermal hazards
  - Not applicable.
9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance  Liquefied gas.
Color  Colorless.
Odor  Mild, Slight Ethereal.
Odor Threshold  Not determined.
P pH  Not determined.
Melting Point/Freezing Point  -178.6°F
Initial boiling point and boiling range  -13°F
Flash Point  < 58°F
Evaporation rate  Not applicable.
Flammability (solid, gas)  Non-flammable.
Upper/lower flammability or explosive limits  4-19 Vol-%, 0.112-0.518 kg/m³
Vapor pressure  5100 hPa, 11700 hPa @ 122°F
Density  1004 kg/m³ @ -13°F
Vapor density  2.3 @ 68°F
Relative density  1.0 @ -13°F
Solubility(ies)  Poorly water soluble product. (0.54 g/100 ml).
Soluble in most organic solvents.
Partition coefficient: n-octanol/water  0.75 log P (Experimental value).
Ignition temperature  Not determined.
Auto-ignition temperature  851°F
Decomposition Temperature  Not determined.
Dynamic Viscosity  0.37 Pa•s @ -23.8°F
Kinematic Viscosity  Not determined.
Explosive properties  Not explosive.
Oxidizing properties  Not oxidizing.

9.2 Other information

Critical pressure  44960 hPa
Molecular weight  66.05 g/mol

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity  Stable under normal conditions.
10.2 Chemical stability  Stable under normal conditions.
10.3 Possibility of hazardous reactions  No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid  Heat and direct sunlight.
10.5 Incompatible materials  Acids, Alkalis and Strong oxidizing agents.
10.6 Hazardous Decomposition Product(s)  No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Substances

Acute toxicity
Inhalation  Low acute toxicity.
LC50 (rat) = 383000 ppm
Effects and Symptoms: Asphyxiation, Headache, dizziness, nausea and vomiting.

Skin corrosion/irritation  Non-irritant.

Serious eye damage/irritation  Not classified.

Respiratory or skin sensitization  It is not a skin sensitizer.

Germ cell mutagenicity  There is no evidence of mutagenic potential.

Carcinogenicity  No evidence of carcinogenicity.

Reproductive toxicity  None anticipated.
STOT - single exposure None anticipated.
STOT - repeated exposure None anticipated.
Aspiration hazard Not classified.
11.2 Other information None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Low toxicity to aquatic organisms.
12.2 Persistence and degradability Readily biodegradable, non-persistent.
12.3 Bioaccumulative potential The product has low potential for bioaccumulation.
12.4 Mobility in soil Poorly water soluble product. The product is predicted to have low mobility in soil.
12.5 Other adverse effects None.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Dispose of wastes in an approved waste disposal facility. Do NOT dispose of via domestic waste.
13.2 Additional Information Disposal should be in accordance with local, state or national legislation. Refer to manufacturer/supplier for information on recovery/recycling.

14. SECTION 14: TRANSPORT INFORMATION

D.O.T. Classification / TDG Regulations

14.1 UN number UN 1030
14.2 UN Proper Shipping Name 1,1-Difluoroethane, R152A Flammable.
US DOT
Canada TDG
IATA 1,1-Difluoroethane.
14.3 Transport hazard class(es) 2.1
14.4 Packing Group None.
14.5 Environmental hazards Not classified as a Marine Pollutant.
14.6 Special precautions for user None.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
14.8 Additional Information DOT-SP 11516: In accordance with this special permit, this product is not subject to labelling requirements unless offered for transportation by air. This product is not subject to placarding requirements. Outside packaging must be marked with proper shipping description and ‘DOT-SP 11516’.

DOT Packaging Exceptions
DOT Packaging Non Bulk 304
DOT Packaging Bulk 314; 315
15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 OSHA
- Toxic and hazardous substances (29 CFR 1910; Subpart Z) Not listed.
- National emission standards for hazardous air pollutants (40 CFR 61.01) Not listed.

15.1.2 Title III Consolidated List of Lists
- CAA 112(r) TQ = 10000 Listed: 1,1-difluoroethane (CAS No.: 75-37-6)

15.1.3 OSPAR List of Chemicals for Priority Action
- Not listed.

15.1.4 State Right to Know Lists
- Listed: 1,1-difluoroethane (CAS No.: 75-37-6) New Jersey, Pennsylvania, Massachusetts

15.1.5 TSCA (Toxic Substance Control Act)
- Listed: 1,1-difluoroethane (CAS No.: 75-37-6)

15.1.6 Proposition 65 (California)
- Not listed.

15.1.7 CAA 602 - Ozone Depleting Substances (ODS)
- Not listed.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
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<tr>
<td>Health</td>
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<tr>
<td>Fire</td>
<td>4</td>
</tr>
<tr>
<td>Instability</td>
<td>1</td>
</tr>
</tbody>
</table>

**LEGEND**
- **LTEL**: Long Term Exposure Limit
- **STEL**: Short Term Exposure Limit
- **DOT**: Department of Transportation
- **TDG**: Transportation of Dangerous Goods
- **IATA**: International Air Transport Association
- **OSPAR**: Oslo and Paris Convention
- **CAA**: Clean Air Act
- **NFPA**: National Fire Protection Association
- **HMIS**: Hazardous Material Identification System

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