MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Dust-Off® The Original Compressed-Gas Duster
Synonym(s): 3.5oz, 7 oz., 10 oz., Professional – 12oz, Jumbo – 17oz, Classic and Plus
CAS #: Mixture
Product use: Dust control
Manufacturer: Falcon Safety Products, Inc.
25 Imclone Drive
Branchburg, NJ 08876 US
Phone: 1-908-707-4900
Supplier: Falcon Safety Products, Inc.
25 Imclone Drive
Branchburg, NJ 08876 US
Phone 1-908-707-4900

LEGEND
HMIS/NFPA
Health  /  1
Flammability  4
Physical Hazard  1
Personal Protection X

2. Hazards Identification

Emergency overview: DANGER
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, edema, drying, defatting and cracking of the skin.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethane, 1,1-difluoro-</td>
<td>75-37-6</td>
<td>60 - 100</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

Eye contact: Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

Skin contact: Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
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.

General advice
Do not puncture or incinerate container. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties
Flammable by WHMIS/OSHA criteria. Containers may explode when heated.

Extinguishing media

Suitable extinguishing media
Do not extinguish burning gas if flow cannot be shut off immediately. Use water spray or fog nozzle to keep cylinder cool


Unsuitable extinguishing media
Not available

Protection of firefighters
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.

Protective equipment for firefighters
Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products
May include and are not limited to: Oxides of carbon. Fluoride gases.

Explosion data

Sensitivity to mechanical impact
Not available

Sensitivity to static discharge
Not available

6. Accidental Release Measures

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 do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning 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.

7. Handling and Storage

Handling
Avoid breathing mists or aerosols of this product. Use good industrial hygiene practices in handling this material.

Storage
Keep out of reach of children. Do not store at temperatures above 49 °C (120.2°F). Keep away from heat, open flames or other sources of ignition.

8. Exposure Controls / Personal Protection

Exposure limits
Ingredient(s) Exposure Limits
Ethane, 1,1-difluoro- ACGIH-TLV
Not established
OSHA-PEL
Not established

Engineering controls
Use only under good ventilation conditions or with respiratory protection.

Personal protective equipment
Eye / face protection
Wear safety glasses with side shields.
Hand protection
If there is constant skin contact, rubber gloves are recommended.

Skin and body protection
As required by employer code.

Respiratory protection
Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

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 the product.

9. Physical and Chemical Properties

Appearance Clear.
Color Colorless
Form Liquefied gas
Odor Slight ethereal.
Odor threshold Not available
Physical state Gas
pH Not applicable
Melting point Not available
Freezing point Not available
Boiling point -25 °C (-13.00 °F)
Flash point -50 °C (-58.00 °F)
Pour point Not available
Evaporation rate Not available
Flammability limits in air, lower, % by volume 3.9
Flammability limits in air, upper, % by volume 16.9
Vapor pressure 599.43 kPa @25°C
Vapor density 2.4 @25°C (air=1)
Specific gravity 0.91
Relative density 0.9 g/cc @25°C
Octanol/water coefficient Not available
Solubility (H2O) Slightly
Auto-ignition temperature 454 °C (849.20 °F)
Percent volatile 100.

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).
Incompatible materials 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.

11. Toxicological Information

Component analysis - LC50
Ingredient(s) LC50
Ethane, 1,1-difluoro- > 64000 ppm rat

Component analysis - Oral LD50
Ingredient(s) LD50
Ethane, 1,1-difluoro- 1500 mg/kg rat

Effects of acute exposure
Eye Contact with liquid may cause frostbite.
Skin Contact with liquid may cause frostbite.
<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness). Vapors may cause dizziness or suffocation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>Not a normal route of exposure.</td>
</tr>
<tr>
<td>Sensitization</td>
<td>Non-hazardous by WHMIS/OSHA criteria.</td>
</tr>
<tr>
<td>Chronic effects</td>
<td>Non-hazardous by WHMIS/OSHA criteria.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Non-hazardous by WHMIS/OSHA criteria.</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>Non-hazardous by WHMIS/OSHA criteria.</td>
</tr>
<tr>
<td>Reproductive effects</td>
<td>Non-hazardous by WHMIS/OSHA criteria.</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>Non-hazardous by WHMIS/OSHA criteria.</td>
</tr>
<tr>
<td>Synergistic Materials</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 12. Ecological Information

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental effects</td>
<td>Product contains no ozone depleting CFCs</td>
</tr>
<tr>
<td>Aquatic toxicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Persistence / degradability</td>
<td>Not available</td>
</tr>
<tr>
<td>Bioaccumulation / accumulation</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Mobility in environmental media</td>
<td>Not available</td>
</tr>
<tr>
<td>Chemical fate information</td>
<td>Not available</td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 13. Disposal Considerations

<table>
<thead>
<tr>
<th>Waste codes</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposal instructions</td>
<td>Review federal, state/provincial, and local government requirements prior to disposal.</td>
</tr>
<tr>
<td>Waste from residues / unused</td>
<td>Not available</td>
</tr>
<tr>
<td>products</td>
<td>Not available</td>
</tr>
<tr>
<td>Contaminated packaging</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 14. Transport Information

#### U.S. Department of Transportation (DOT) / International Maritime Organization (IMO)

<table>
<thead>
<tr>
<th>Basic shipping requirements:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>1,1-Difluoroethane</td>
</tr>
<tr>
<td>Hazard class</td>
<td>2.1</td>
</tr>
<tr>
<td>UN number</td>
<td>1030</td>
</tr>
</tbody>
</table>

#### Additional information:

<table>
<thead>
<tr>
<th>DOT Packaging</th>
<th><em>Note</em>: Falcon Safety Products has been granted a DOT exemption that allows this product to be shipped similar to a Consumer Commodity (ORM-D). A copy of the DOT exemption can be obtained by calling Falcon Safety Products, Inc at 908-707-4900.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exceptions:</td>
<td></td>
</tr>
</tbody>
</table>
Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:
Proper shipping name 1,1-Difluoroethane
Hazard class 2.1
UN number 1030
Additional information:
Packaging exceptions Limited quantity (containers up to 125mL)

IATA/ICAO (Air)

Basic shipping requirements:
Proper shipping name 1,1-Difluoroethane
Hazard class 2.1
UN number 1030
Additional information:
Maximum net quantity packaging Cargo aircraft only – 150 kg maximum (Forbidden on passenger aircraft)

15. Regulatory Information

Canadian federal regulations
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada - CEPA - Schedule I - List of Toxic Substances
Ethane, 1,1-difluoro- 75-37-6 Totally halogenated chlorofluorocarbons that have the molecular formula CnClxF(2n+2-x): (a) quantities that may be manufactured or imported; (b) Prohibition on manufacture, use, sale, offer for sale, import or export except for authorized uses [SOR/89-351, s. 16; 90-453, s. 5; 94-408, s. 24; 92-507, s. 17; 96-237, s. 5]

US Federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.
CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)
29 CFR 1910.1200 hazardous chemical 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 substance 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.

U.S. - Louisiana - Reportable Quantity List for Pollutants
Ethane, 1,1-difluoro- 75-37-6 5000 Lb final RQ; 2270 kg final RQ
U.S. - Massachusetts - Right To Know List
Ethane, 1,1-difluoro- 75-37-6 Present
U.S. - New Jersey - Right to Know Hazardous Substance List
Ethane, 1,1-difluoro- 75-37-6 sn 0715

Inventory name
<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

16. Other Information

Disclaimer: Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date: 18-April-2012
Effective date: 18-April-2012
Expiry date: 18-April-2015
Prepared by: Falcon Safety Products, Inc. (908) 707-4900

Other information: For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.