

### SECTION 1: Identification

#### 1.1. Identification

Product form : Substance  
 Substance name : Blow Clean Inert Dusting Gas  
 Product code : SS-026

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Dusting agents

#### 1.3. Supplier

ELITechGroup Inc.  
 370 West 1700 South  
 Logan, UT, Cache, 84321  
 USA  
 T +1 (435) 752-6011 - F +1 (435) 752-4127  
[qara\\_ebs@elitechgroup.com](mailto:qara_ebs@elitechgroup.com) - [www.elitechgroup.com](http://www.elitechgroup.com)

#### 1.4. Emergency telephone number

Emergency number : Contact your distributor or poison control center in your country.  
 InfoTrac Emergency Response: Calls within the USA, phone: 1-800-535-5053. Calls outside the USA, phone: +1 352-323-3500 (call collect)  
 Customer ID: #90104 (NOTE: this number is required when a customer calls into either phone number above).

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Flammable aerosols, Category 2	H223	Flammable aerosol.
Gases under pressure : Compressed gas	H280	Contains gas under pressure; may explode if heated.
Full text of H-statements: see section 16		

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labelling

Hazard pictograms (GHS US) :  

Signal word (GHS US) : Warning

Hazard statements (GHS US) : H223 - Flammable aerosol.  
 H280 - Contains gas under pressure; may explode if heated.

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211 - Do not spray on an open flame or other ignition source.  
 P251 - Do not pierce or burn, even after use.  
 P403 - Store in a well-ventilated place.  
 P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Do not store in enclosed vehicle.

### 2.4. Unknown acute toxicity (GHS US)

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent  
Name : Blow Clean Inert Dusting Gas

Name	Product identifier	%	GHS-US classification
1,1-difluoroethane	CAS-No.: 75-37-6	100	Flam. Aerosol 2, H223 Press. Gas (Comp.), H280

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists. May cause frostbite.

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention

First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : May cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression

Symptoms/effects after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquid

Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquid.

Symptoms/effects after ingestion : Not a normal route of exposure.

Chronic symptoms : No effects known.

### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray, water fog, dry chemical, alcohol resistant foam, carbon dioxide.  
Unsuitable extinguishing media : No unsuitable extinguishing media known.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Flammable gas.  
Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.  
Hazardous decomposition products in case of fire : Products of combustion may include, and are not limited to: oxides of carbon, hydrofluoric acid, carbonyl fluoride.

#### 5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire : Exposure to fire/heat: consider evacuation.  
Firefighting instructions : DO NOT fight fire when fire reaches explosives. Evacuate area. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.  
Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

##### 6.1.1. For non-emergency personnel

Protective equipment : Use personal protection recommended in Section 8.  
Emergency procedures : Ventilate spillage area. Keep upwind. Mark the danger area. Seal off low-lying areas. Close doors and windows of adjacent premises. No naked flames. Carry out specific temperature controls. Wash contaminated clothes. Large spills/in confined spaces: consider evacuation. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Stop leak without risks if possible. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).  
Methods for cleaning up : Damaged/cooled tanks must be emptied. Leave the product to evaporate. Provide ventilation. Store away from other materials. Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use. Keep away from sources of ignition - No smoking.
- Precautions for safe handling : Do not spray on an open flame or other ignition source. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Provide local exhaust or general room ventilation. When using do not eat, drink or smoke. Prevent the build-up of electrostatic charge. Use non-sparking tools
- Hygiene measures : Wash contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Keep out of the reach of children. Keep container dry and in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep in fireproof place. Store in original container. Do not store in enclosed vehicle

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 1,1-difluoroethane (75-37-6)

No additional information available

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
- Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

#### 8.3. Individual protection measures/Personal protective equipment

##### Personal protective equipment:

Avoid all unnecessary exposure.

##### Hand protection:

Wear suitable protective gloves

##### Eye protection:

Safety glasses with side shields.

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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### Personal protective equipment symbol(s):



### Other information:

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Gas
Appearance	: Clear, colorless gas.
Colour	: Colourless
Odour	: Ether-like odour
Odour threshold	: No data available
pH	: Neutral
Melting point	: No data available
Freezing point	: No data available
Boiling point	: -25 °C (-13° F)
Flash point	: -14.4 °C (-58° F)
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Flammable Non flammable. Flammable aerosol.
Vapour pressure	: 5960 kPa (at 25° C or 77° F)
Relative vapour density at 20°C	: 2.4 (at 25° C, 77° F)
Relative density	: 0.91
Solubility	: Slightly soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: 3.9 – 16.9 vol %
Explosive properties	: No data available
Oxidising properties	: No data available

### 9.2. Other information

Other properties : No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Stable under normal storage conditions. Flammable gas. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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### 10.4. Conditions to avoid

Heat. Incompatible materials. Sources of ignition. Do not expose to temperatures exceeding 50 °C/ 122 °F.

### 10.5. Incompatible materials

Alkali and alkaline earth metals. Powdered metals. Powdered metallic salts.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon, hydrofluoric acid, carbonyl fluoride.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Blow Clean Inert Dusting Gas

LD50 oral rat	1500 mg/kg
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LC50 Inhalation - Rat [ppm]	64000 ppm
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Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: May cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system depression.
Symptoms/effects after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquid.
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. May cause frostbite on contact with the liquid.
Symptoms/effects after ingestion	: Not a normal route of exposure.
Chronic symptoms	: No effects known.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

### 12.2. Persistence and degradability

#### Blow Clean Inert Dusting Gas

Persistence and degradability	Not established.
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### 12.3. Bioaccumulative potential

#### Blow Clean Inert Dusting Gas

Bioaccumulative potential	Not established.
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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on global warming	: No known effects from this product.
Other information	: Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use.
Additional information	: Flammable vapours may accumulate in the container.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

DOT NA No	: UN1030
UN-No. (TDG)	: UN1030
UN-No. (IMDG)	: 1030
UN-No. (IATA)	: 1030

### 14.2. UN proper shipping name

Proper Shipping Name (DOT)	: 1,1-Difluoroethane
Proper Shipping Name (TDG)	: 1,1-DIFLUOROETHANE
Proper Shipping Name (IMDG)	: 1,1-DIFLUOROETHANE (REFRIGERANT GAS R 152a)
Proper Shipping Name (IATA)	: 1,1-Difluoroethane

### 14.3. Transport hazard class(es)

<b>DOT</b>	
Transport hazard class(es) (DOT)	: 2.1
Hazard labels (DOT)	: 2.1



<b>TDG</b>	
Transport hazard class(es) (TDG)	: 2.1
Hazard labels (TDG)	: 2.1

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### IMDG

Transport hazard class(es) (IMDG) : 2.1  
Danger labels (IMDG) : 2.1



### IATA

Transport hazard class(es) (IATA) : 2.1  
Danger labels (IATA) : 2.1



### 14.4. Packing group

Packing group (DOT) : Not applicable  
Packing group (TDG) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

**DOT**  
UN-No. (DOT) : UN1030  
DOT Special Provisions (49 CFR 172.102) : T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of this subchapter.  
DOT Packaging Exceptions (49 CFR 173.xxx) : 306  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 304  
DOT Packaging Bulk (49 CFR 173.xxx) : 314, 315  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : Forbidden  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg  
DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.  
DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"  
Other Packaging Information : Special permit granted for shipments. DOT SP-15146.

### TDG

UN-No. (TDG) : UN1030  
ERAP Index : 3000  
Explosive Limit and Limited Quantity Index : 0.125 L

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Excepted quantities (TDG) : E0  
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : Forbidden  
Emergency Response Guide (ERG) Number : 115

**IMDG**  
Limited quantities (IMDG) : 0  
Excepted quantities (IMDG) : E0  
Packing instructions (IMDG) : P200  
Tank instructions (IMDG) : T50  
EmS-No. (Fire) : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES  
EmS-No. (Spillage) : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)  
Stowage category (IMDG) : B  
Stowage and handling (IMDG) : SW2  
Properties and observations (IMDG) : Explosive limits: 5% to 17% Much heavier than air (2.3).

**IATA**  
PCA Excepted quantities (IATA) : E0  
PCA Limited quantities (IATA) : Forbidden  
PCA limited quantity max net quantity (IATA) : Forbidden  
PCA packing instructions (IATA) : Forbidden  
PCA max net quantity (IATA) : Forbidden  
CAO packing instructions (IATA) : 200  
CAO max net quantity (IATA) : 150kg  
Special provisions (IATA) : A1  
ERG code (IATA) : 10L

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

### 15.2. International regulations

#### CANADA

#### 1,1-difluoroethane (75-37-6)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

#### 1,1-difluoroethane (75-37-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

#### Blow Clean Inert Dusting Gas

State or local regulations U.S. - Pennsylvania - RTK (Right to Know) List

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California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
1,1-difluoroethane(75-37-6)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List

### SECTION 16: Other information

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Other information : None.

Full text of H-statements	
H223	Flammable aerosol.
H280	Contains gas under pressure; may explode if heated.

NFPA health hazard

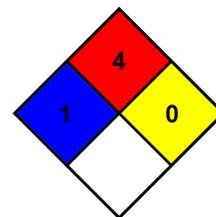
: 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard

: 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Reason for change: updating to latest format.