



## SAFETY DATA SHEET

*This Safety Data Sheet complies with the Canadian Hazardous Product Regulations, the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910 (OSHA HCS), and the European Union Directives.*

### 1. Product and Supplier Identification

- 1.1 **Product:** Coghlan's Air Horn
- 1.2 **Other Means of Identification:** Air Horn #1414
- 1.3 **Product Use:** Air horn for emergency alert
- 1.4 **Restrictions on Use:** None known
- 1.5 **Producer:** Coghlan's Ltd.,  
121 Irene Street,  
Winnipeg, Manitoba  
Canada, R3T 4C7
- Telephone: +1(204) 284-9550  
Facsimile: +1(204) 475-4127  
Email: [info@coghlan.com](mailto:info@coghlan.com)
- Supplier:** As above
- 1.6 **Emergencies:** +1(877) 264-4526

### 2. Hazards Identification

- 2.1 **Classification of product or mixture**  
Note to reader: This product has been classified according to the manufacturers recommendations.

**GHS Classification:** Gases Under Pressure, Liquefied Gas  
Flammable gases, Category 1A

- 2.2 **GHS Label Elements, including precautionary statements**

**Pictogram:**



**Signal Word:** Danger

**GHS Hazard Statements:** H280: Contains gas under pressure, may explode if heated.  
H220: Extremely flammable gas

**GHS Precautionary Statements:**

**Prevention:** P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Response:** P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
P381: In case of leakage, eliminate all ignition sources.

**Storage:** P403: Store in a well-ventilated place.

**Disposal:** None.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS:** Protect from sunlight so that temperatures do not exceed 50°C. Do not incinerate, or pierce container even when empty.

**2.4 Additional Information**

**Primary Routes of Entry:**

Skin Contact: Yes. Expanding gases can freeze tissue.  
Skin Adsorption: No  
Eye Contact: Yes. Expanding gases can freeze tissue  
Ingestion: No  
Inhalation: Yes. Can displace oxygen if in sufficient quantity.

**Emergency Overview:** Do not point discharge at skin or eyes. Expanding gases can freeze tissue leading to severe burns. The same warning applies for the eyes. Do not discharge in very confined spaces because the gas can displace oxygen.

**Effects of Short-Term (Acute) Exposure:**

**Inhalation:** Inhalation of high concentrations of this gas may cause dizziness, headache, nausea or vomiting. These health effects are similar to asphyxiation or lack of oxygen. Do not breathe vapours. Inhalation of vapours may cause respiratory irritation.

**Skin Contact:** Contact with skin through direct spray may cause severe frostbite.

**Eye Contact:** Contact with eyes through direct spray may cause severe frostbite.

**Ingestion:** Ingestion is not a route of entry for this product.

**Effects of Long-Term (Chronic) Exposure:** There is not chronic health effect expected.

**Medical Conditions Aggravated By Exposure:** None

### 3. Composition

#### 3.1 Mixture composition

| Component  | % (w/w) | GHS Classification  |
|--|---------|---|
| 1,1-Difluoroethane, liquefied, under pressure (R152a)<br>CAS No 75-37-6<br>EINECS No. N/av | >99     | Gases under pressure, liquefied gas<br>Flammable Gases, Category 1A |

### 4. First Aid Measures

#### 4.1 Description of First Aid Measures

**General advice:** Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.

**In case of eye contact:** Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

**In case of skin contact:** Rinse with water. In case of frostbites: Wash immediately with lots of water (15 minutes)/shower. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service..

**If inhalation:** Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

**If ingestion:** Not applicable.

#### 4.2 Most important symptoms and effects, both acute and delayed

##### Effects of Short-Term (Acute) Exposure:

**Inhalation:** Inhalation of high concentrations of this gas may cause dizziness, headache, nausea or vomiting. These health effects are similar to asphyxiation or lack of oxygen. Do not breathe vapours. Inhalation of vapours may cause respiratory irritation.

**Skin Contact:** Contact with skin through direct spray may cause severe frostbite.

**Eye Contact:** Contact with eyes through direct spray may cause severe frostbite.

**Ingestion:** Ingestion is not a route of entry for this product.

**Effects of Long-Term (Chronic) Exposure:** There is not chronic health effect expected.

**Medical Conditions Aggravated By Exposure:** None

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## 5. Fire Fighting Measures

### 5.1 Extinguishing Media

**Suitable extinguishing media:** Use dry chemical, carbon dioxide, chemical foam or water spray to extinguish. Use water spray to cool containers.

### 5.2 Special hazards arising from mixture:

Produces carbon monoxide, carbon dioxide, halogenated compounds and hydrogen fluorides.

Vapors may accumulate in low-lying areas. Aerosol container may erupt with force at temperatures above 50°C[122°F]. Produces irritating and toxic fumes in fires or in contact with hot surfaces.

**Advice for firefighters:** In any fire situation, firefighters should wear full protective clothing including self contained breathing apparatus. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Use water spray to cool fire exposed containers.

### 5.3 Further Information:

**Sensitivity to Impact:** No  
**Sensitivity to Static Discharge:** Yes

#### HAZARDOUS MATERIALS INFORMATION SYSTEM (HMIS) HAZARD INDEX:

HEALTH: 1

FLAMMABILITY: 4

REACTIVITY: 1

CHRONIC HEALTH:

## 6. Accidental Release Measures

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

Avoid breathing the vapours. For very large spills wear self-contained breathing apparatus before approaching the spill. Wear cold insulating clothing and gloves.

**Respiratory Protection:** Respiratory protection not required for the small spills or recommended use of this product. In cases where large amounts are spilled, to avoid inhaling gas, use self-contained breathing apparatus. Use only approved respirators by NIOSH or OSHA.

**Skin protection:** Wear suitable protective equipment to prevent skin contact. Wear insulated gloves.

**Eye and Face Protection:** Wear goggles.

**Footwear:** No specific recommendation.

**Other:** None

### 6.2 Environmental precautions

Do not let this product escape into the environment. Ensure that spilled material does not enter sewers or natural waterways.

#### Methods and materials for containment and cleanup

For aerosol can size spill, leave the immediate spill area to avoid contact with the liquid. No containment required under normal circumstances. If it can safely be done, extinguish open flames or remove high temperature sources to avoid producing toxic decomposition products. Cleaning:

Ensure adequate ventilation, especially in low or enclosed areas. The product will turn gaseous and be dispersed.

**6.3 Reference to other sections**

For disposal, see Section 13.

## 7. Handling and Storage

**7.1 Precautions for safe handling**

**Handling Procedures:** Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not get in eye, on skin, or on clothing. Do not breathe mist/vapors/spray. In cases of inadequate ventilation wear respiratory protection. Do not pierce or burn, even after use.

Keep upright when in use. Do NOT spray when container is more than 45 degrees off vertical or inverted. Wear cold-insulating gloves if exposure to liquid or aerosol jet is likely. Wear protective gloves/eye protection.

**7.2 Conditions for safe storage, including incompatibilities**

**Storage:** *Keep out of reach of children and animals.* Protect from sunlight. Do not expose to temperatures exceeding 50°C [122°F]. Recommendation: Keep in well-ventilated room.

**7.3 Specific end use(s)**

No other uses except those mentioned in Section 1.3

## 8. Exposure Controls, Personal Protection

**8.1 Control parameters**

**Components with workplace control parameters**

*1,1-Difluoroethane*, CAS No 75-37-6

None established

**8.2 Exposure Controls**

**Respiratory Protection:** Respiratory protection not required for the small spills or recommended use of this product. In cases where large amounts are spilled, to avoid inhaling gas, use self-contained breathing apparatus. Use only approved respirators by NIOSH or OSHA.

**Skin protection:** Wear suitable protective equipment to prevent skin contact. Wear insulated gloves.

**Eye and Face Protection:** Wear goggles.

**Footwear:** No specific recommendation.

**Other:** None

**Control of environmental exposure**

Prevent from entering the environment through natural waterways, sewers or drains.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

|                                       |                               |
|---------------------------------------|-------------------------------|
| <b>Appearance:</b>                    | Gas, liquefied, colourless    |
| <b>Odour:</b>                         | Mild, slight ether-like odour |
| <b>Odour Threshold:</b>               | Not available                 |
| <b>pH:</b>                            | Not applicable                |
| <b>Melting Point/Freezing Point:</b>  | -117°C                        |
| <b>Initial Boiling Point (range):</b> | -25°C                         |
| <b>Flash Point:</b>                   | >-50°C                        |
| <b>Evaporation Rate:</b>              | Not determined                |
| <b>Flammability:</b>                  | Not determined                |
| <b>Upper Explosion Limit:</b>         | 19%                           |
| <b>Lower Explosion Limit:</b>         | 4%                            |
| <b>Vapour Pressure:</b>               | 5100 hPa, 11700 hPa @ 50°C    |
| <b>Critical Pressure:</b>             | 44960 hPa                     |
| <b>Vapour Density (air = 1):</b>      | 2.3 @20°C                     |
| <b>Relative Density:</b>              | 1 gm/cc (water = 1)           |
| <b>Solubility in Water:</b>           | Miscible                      |
| <b>Partition Coefficient:</b>         | Not determined                |
| <b>Autoignition Temperature:</b>      | 455°C                         |
| <b>Decomposition Temperature:</b>     | Not available                 |
| <b>Viscosity:</b>                     | Not determined                |
| <b>Explosive Properties:</b>          | Not available                 |
| <b>Oxidizing Properties:</b>          | Not available                 |
| <b>Percent Volatiles:</b>             | Not available                 |
| <b>Pour Point:</b>                    | Not available                 |

9.2 Other safety information: None

## 10. Stability and Reactivity

### 10.1 Reactivity

No dangerous reactions known under conditions of normal use and storage. On heating/burning: release of toxic and corrosive gases/vapours: hydrofluoric acid, carbonyl fluoride. Reacts violently with (strong) oxidizers.

### 10.2 Chemical Stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

None determined.

### 10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

### 10.5 Incompatible materials

Strong acids. Strong bases.

### 10.6 Hazardous decomposition products

Toxic fume. Carbon monoxide. Carbon dioxide

## 11. Toxicological Information

### 11.1 Information on toxicological effects

**Acute toxicity**

No GHS classification

**Skin corrosion/irritation**

No GHS classification

**Serious eye damage/eye irritation**

No GHS classification

**Respiratory or skin sensitization**

No GHS classification

**Germ Cell Mutagenicity**

No GHS classification

**Carcinogenicity**

No GHS classification. Not listed by IARC, ACGIH, NTP or OSHA.

**Reproductive toxicity**

No GHS classification

**Specific Target Organ Toxicity – Single exposure**

No GHS classification

**Specific Target Organ Toxicity – Repeated exposure**

No GHS classification

**Aspiration Hazard**

No GHS classification

**Aquatic Toxicity**

No GHS classification

**Additional information**

| Component                            | LD <sub>50</sub>  | LC <sub>50</sub>                             |
|--------------------------------------|---|--|
| 1,1-difluoroethane<br>CAS No 75-37-6 | Not available (oral/rat)<br>Not available (dermal/rabbit) | 1500 g/m <sup>3</sup> (inhalation/rat, 4 hr) |

## 12. Ecological Information

### 12.1 Toxicity

**Acute:**

No data available

**Chronic:**

No data available

- 12.2 Persistence and degradability**  
No data available
- 12.3 Bioaccumulative potential**  
No data
- 12.4 Mobility in soil**  
No data available
- 12.5 Results of PBT and vPvB assessment**  
Not conducted
- 12.6 Other adverse effects**  
No data available

## 13. Disposal Considerations

### 13.1 Waste treatment methods

**Product:**

If compass is damaged or leaking, clean with soap and water before disposing in general garbage. Check with all applicable local, state (provincial), and federal regulations before disposing.

**Contaminated Packaging:**

As above

## 14. Transport Information

**Transport of Dangerous Goods (TDG and CLR):** UN 1950, Aerosols, Flammable, Class 2.1\*

**United States Department of Transport (49CFR):** UN 1030, 1,1-Difluorethane, Class 2.1, Level 1 Aerosol, Limited Quantity

**International Air Transport Association (IATA):** UN 1950, Aerosols, Flammable, Class 2.1

**International Maritime Organization (IMO):** UN 1950, Aerosols, Flammable, Class 2.1

\*May be shipped as a Limited Quantity or Consumer Commodity is < 1L in size



## 15. Regulatory Information

### CANADIAN FEDERAL REGULATIONS:

CEPA, DOMESTIC SUBSTANCES LIST: Listed

### AMERICAN FEDERAL REGULATIONS:

TSCA (Toxic Substance Control Act): Listed

SARA 311/312 Hazardous chemical: Fire Hazard, Acute Health

### Other State Regulations;

**California Prop 65 Components:** This product does not contain a chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm.

### OTHER:

None

## 16. Other Information

**Original Preparation Date:** March 25, 2018

**Prepared by:** Technical Department, Coghlan's Ltd.

**Disclaimer:** This Safety Data Sheet (SDS) was prepared using information provided by CCINFO, ingredient supplier SDS and other relevant sources. This product has been classified using weight of evidence, expert judgment and previous testing as per Part 1.3 of the Seventh Edition of The Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The information in this SDS is offered for your consideration and guidance when exposed to this product. Coghlan's Ltd expressly disclaims all expressed or implied warranties and assumes no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

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**Revisions:** None