

# **Safety Data Sheet**

# **Falcon Sound Alert Signal Horn**

#### Section 1. Identification

Product Identifier Falcon Sound Alert Signal Horn

Synonyms FSA6, FSA6R, FSA1

Manufacturer Stock N/A

**Numbers** 

Recommended use Personal Safety - Hand held signaling device. Prior to use, read all label

instuctions and warnings.

Uses advised against

Use Only as Directed - Read label instructions carefully. Keep out of reach of

children. Intentional misuse by deliberately concentrating and/or inhaling contents

may be fatal.

#### Section 2. Hazards Identification

Classification FLAMMABLE GASES - Category 2

GASES UNDER PRESSURE - Compressed gas

Signal Word Pictogram



Hazard Statements Contains gas under pressure; may explode if heated

Flammable gas

**Precautionary Statements** 

Response Eliminate all ignition sources if safe to do so.

Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Prevention Do not spray on an open flame or other ignition source.

Keep away from heat.

Pressurized container: Do not pierce or burn, even after use.

Storage Do not store in enclosed vehicle.

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

Store at temperatures not exceeding 120 degrees F/49 degrees C

Disposal N/A

General Keep out of reach of children

Ingredients of unknown

toxicity

0%

Hazards not Otherwise

Classified

N/A

No Data Available

# Section 3. Ingredients

CAS	Ingredient Name	Weight %
75-37-6	Ethane, 1,1-difluoro-	100 %

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First-Aid Measures

General Advice Never give anything by mouth to an unconscious person. When symptoms

persist or in all cases of doubt, seek medical advice.

Inhalation Remove from exposure, lie down. Move to fresh air. Keep patient warm and at

rest. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get immediate medical attention.

Skin Take off all contaminated clothing immediately. Flush area with lukewarm water.

Do not use hot water. If frostbite has occurred, call a physician.

Eye Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get

medical attention.

Ingestion Is not considered a potential route of exposure.

Most important Anaesthetic effects: light-headedness, irregular heartbeat with a strange symptoms/effects, acute and sensation in the chest, heart thumping, apprehension, feeling of fainting,

delayed dizziness or weakness.

Protection of First-aiders If potential for exposure exists refer to Section 8 for specific personal protective

equipment.

Notes to Physician Because of possible disturbances of cardiac rhythm catecholamine drugs, such

as epinephrine, which may be used in situations of emergency life support,

should be used with special caution.

#### Section 5. Fire Fighting Measures

Suitable Extinguishing

Media

Unsuitable Extinguishing

Media

Specific Hazards

(CO2)

No applicable data available.

Flammable. This substance's fire decomposition by-products will include hydrofluoric acid and possibly carbonyl flouride. Avoid contact with these materials, which are toxic and irritating. Evacuate personnel immediately in the event of a fire involving this substance. Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Vapors or gases

Water spray, water fog, dry chemical, alcohol resistant foam, carbon dioxide

may travel considerable distances to ignition source and flash back.

Special protective equipment for firefighters Further Information

Use personal protective equipment. Wear neoprene gloves during cleaning up work after a fire. Exposure to decompositon products may be a hazard to health. Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment. Cool containers/tanks with water spray.

#### Section 6. Accidental Release Measures

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections

before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE

EQUIPMENT during clean-up.

Safeguards (Personnel) Evacuate personnel to safe areas. Ventilate the area. Refer to protective

measures listed in sections 7 and 8.

Spill Clean-up If this product is spilled and not recovered, or is recovered as a waste for

treatment and disposal, the CERCLA Reportable Quantity is 100 lbs. (release of an Unlisted Hazardous Waste with the Characteristic of Ignitability). Evaporates. Ventilate area using forced ventilation, especially low or enclosed places where

heavy vapors might collect.

Accidental Release Measures Wear self-contained breathing apparatus (SCBA).

#### Section 7. Handling and Storage

Handling (Personnel) Avoid breathing vapors or mist. Avoid contact with skin, eyes and clothing.

Provide sufficient air exchange and/or exhaust in work rooms. For personal protection see section 8. Handle in accordance with good industrial hygiene and

safety practice.

Handling (Physical Aspects) Vapors are heavier than air and may spread along floors. Vapors may form

flammable mixture with air. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropirate standard. No sparking tools should be used. Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition. When using DO NOT SMOKE. Do not use in areas where vapors may accumulate such as

paper shredders.

Dust Explosion class

Storage Period

Storage

Not applicable

Keep container tightly closed and in a dry, well-ventilated location. Store in

original container. The product has an indefinite shelf life when stored properly.

Recommended shelf life - 10 years provided product is stored in a dry location as directed.

Storage Temperature Do not expose to temperatures above 120 degrees F (49 degrees C) as

overheating could cause can to burst. DO NOT leave in direct sunlight or

enclosed vehicle.

# Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Ethane, 1,1-difluoro-	N/A	N/A	N/A
Personal Protective Equipment	N/A			
Engineering controls	Ensure adequate ventilation, especially in confined areas. Use respiratory protection if needed.			
Eye/Face Protection	Wear safety glasses with side shields. Direct contact with liquid may cause frostbite.			
Respiratory Protection	For rescue use self-contained breathing apparatus. Vapors are heavier than air and can cause suffication by reducing oxygen available for breathing.			
Skin and body protection	As required by employer code. If there is risk of skin contact, wear protective clothing, gloves, etc. Direct contact with liquid can cause frostbite.			
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practices.			

# Section 9. Physical and Chemical Properties

Physical State	Gas		
Color	Clear		
Odor	slight, ether- like		
Odor Threshold	No applicable data available		
Solubility	Water - Slightly		
Partition coefficient Water/n-octanol	N/A		
VOC%	N/A		
Viscosity	No applicable data available		
Specific Gravity	0.91		
Density lbs/Gal	0.9		
Pounds per Cubic Foot	N/A		
Flash Point	<-58°F (<-50° C)		
FP Method	N/A		
Ph	Neutral		
Melting Point	No applicable data available		
Boiling Point	-13 °F (-25 ° C)		
Boiling Range	N/A		
LEL	3.9		
UEL	16.9		
Evaporation Rate	No applicable data available		
Flammability	Flammable		
Decomposition Temperature	N/A		
Auto-ignition Temperature	No applicable data available		
Vapor Pressure	5,960 KPa at 77F (25C)		
Vapor Density	2.4 at 77F (25C) (Air=1)		

# Section 10. Stability and Reactivity

Reactivity Stable under recommended storage conditions.

Chemical Stability The product is chemically stable under recommended storage conditions.

Conditions to Avoid Aerosol containers are unstable at temperatures above 120 degrees F/49

degrees C

Incompatible Materials Incompatible products include Alkali metals, Alkaline earth metals, powdered

metals, powdered metal salts.

Hazardous Decomposition

Products

Decomposition products are hazardous. This material can be decomposed by high temperatures (open flames, glowing metal surfaces, etc.) forming

hydrofluoric acid and possibly carbonyl fluoride.

#### Section 11. Toxicological Information

Component Analysis - LC50 1,1-Difluoroethane - > 64000 ppm rat Component analysis - Oral 1,1-Difluoroethane - 1500 mg/kg rat

LD50

Effects of Acute Exposure -Contact with liquid may cause frostbite

Eye

Effects of Acute Exposure -Contact with liquid may cause frostbite

Skin

Effects of Acute Exposure -Excessive intentional inhalation may cause respiratory tract irritation and central

nervous system effect (headaches, dizziness). Vapors may cause dizziness or

suffocation.

Effects of Acute Exposure -

Ingestion

Inhalation

Not a normal route of exposure

Sensitization Non-hazardous by WHMIS/OSHA criteria.

Not classifiable as a human carcinogen. Animal testing did not show Carcinogenicity

carcinogenic effects. None of the components present in this material at

concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA

as a carcinogen.

Mutagenicity Animal testing did not show any mutagenic effects. Did not cause genetic

damage in cultured bacterial cells. Tests on mammalian cell cultures showed

mutagenic effects.

Reproductive Toxicity

No toxcicity to reproduction. Animal testing showed no reproductive toxicity.

**Teratogenicity Further Information**  Animal testing showed no developmental toxicity. Cardiac sensitization threshold limit: 405000 mg/m3

# Section 12. Ecological Information

**Aquatic Toxicity** 1,1-Difluoroethane 96 h LC50: Fish 295.78 mg/l 96 h EC50: Algae 47.76 mg/l

48 h EC50: Daphnia (water flea) 146.7 mg/l

# Section 13. Disposal

Waste Disposal Methods Comply with applicable Federal, State/Provincial and Local Regulations. May be

a RCRA Hazardous waste due to the ignitability characteristic. Do not puncture

or incinerate container.

Contaminated Packaging Not Available

# Section 14. Transport Information

**UN Number** 1030

**UN Proper Shipping Name** 1,1-Difluoroethane

**DOT Classification** 2.1 N/A Packing Group

**Packaging Exceptions** Note: Falcon Safety Products has been granted a DOT special permit.

Transportation of Dangerous

Proper Shipping name: 1,1-Difluoroethane Hazard Class: 2.1 UN number: 1030 Goods (TDG - Canada) Packaging Exceptions: Limited quantity (containers up to 125mL)

IATA/ICAO (Air)

Proper Shipping Name: 1,1-Difuoroethane. Hazard Class: 2.1. UN Number: 1030. Maximum Net Quantity Packaging: Cargo Aircraft only - 150 kg maximum (forbidden on passenger aircraft). Maximum Net Quantity packaging cargo only:

150 kg.

IMDG (Marine Transport)

Proper Shipping Name: 1,1-DIFLUOROETHANE. Hazard Class: 2.1. UN

Number: 1030.

Additional Information

TDG Canada: Falcon Safety Products has been granted Equivalency Certificate

SU 9211 (ren. 1) by the TCSS, TDGD to offer for transport by road, rail and

#### Section 15. Regulatory Information

Canadian Federal This product has been classified in accordance with the hazard criteria of the Regulations

Controlled Products Regulations and the SDS contains all the information

required by the Controlled Products Regulations.

WHMIS Status

WHMIS Classification Class A - Compressed Gas, Class B - Division 1 - Flammable Gas

**TSCA** On the inventory, or in compliance with the inventory.

SARA 313 Regulated This material does not contain any chemical components with known CAS Chemical(s)

numbers that exceed the threshold (De Minimis) reporting levels established by

SARA Title III, Section 313.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard **US Federal Regulations** 

Communication Standard, 29 CFR 1910.1200.

Chemical(s)

NJ Right to Know Regulated Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens,

mutagens or teratogens): 1,1-Difluoroethane.

This product does not contain a chemical known to the State of California to California Prop. 65

cause cancer, birth defects or other reproductive harm.

Canada Domestic Substances List (DSL) This product is listed on the DSL inventory list and complies with the inventory

requirements administered by the governing country.

# Section 16. Other Information

**Revision Date** 

8/11/2016

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.