Safety data sheet

Issue date: 23-12-2011
Version: 01.00/GHS.ENG

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name:	150 Feet of ENERGY
Substance name:	1,1-difluoroethane
Registration number:	-
EC No.:	200-866-1
CAS No.:	75-37-6

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Portable compressor for vFan Airbrush.
Paint compressor and duster.

1.3. Details of the supplier of the safety data sheet

Distributor: Smits Group
65 Greenmount Drive
East Tamaki, Auckland, NZ
Tel: (09) 274 6871

1.4. Emergency telephone number

Poisons Information Centre NZ call: 0800 764 766.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

DSD-classification: F+;R12

CLP-classification: Flam. Gas 1;H220 Press. Gas liq. gas; H280

Please see section 16 for the full text of R-phrases and H-phrases.

Most serious harmful effects: Extremely flammable gas. Contains gas under pressure, may explode if heated.

2.2. Label elements


Signal word: Danger

Contains: 1,1-difluoroethane (EC No. 200-866-1)

H-phrases: Extremely flammable gas.
Contains gas under pressure, may explode if heated.

P-phrases: Keep out of reach of children.
Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
Eliminate all ignition sources if safe to do so.
Protect from sunlight. Store in a well-ventilated place.

2.3. Other hazards

Assessment to determine PBT and vPvB has not been made.

SECTION 3: Composition/information on ingredients

3.1. Substances

Registration number	CAS/ EC No.	Substance	DSD-classification/ CLP-classification	w/w%	Note
.	75-37-6	1,1-difluoroethane	Fx;R12	100	.
.	200-866-1	.	Flam. Gas 1;H220 Press. Gas liq. gas;H280	.	.

Please see section 16 for the full text of R-phrases and H-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air. In case of respiratory stop, administer artificial respiration/oxygen (but not the mouth-to-nose method)

Ingestion: Not relevant, as the product is a gas.

Skin: Seek medical advice immediately if symptoms indicate that the gas has been absorbed through the skin. See below in case of frostbite.
On frostbite: rinse with plenty of lukewarm water (max 37°C). Do not remove clothes until thawed. Seek medical advice.

Eyes: Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice in case of frostbite.

Burns: Flush with water until pain ceases. Remove clothing that is not stuck to the skin – seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.

Other information: When obtaining medical advice, show the safety data sheet or label.

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

Splashes of gas in the eyes may cause frostbite. Direct contact may cause frostbite. The skin becomes numb and white. Pains, reddening and wounds follow. The gas may displace atmospheric air, thereby causing risk of suffocation.

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

In case of shortness of breath, give oxygen. Keep victim warm. Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.

Unsuitable extinguishing media: Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Heating will induce a significant increase in pressure with a risk of bursting. Remove the pressurized cylinder from the danger area if it can be done without risk. Keep well away from the fire. Cool with a water stream if possible. Avoid inhalation of vapour and flue gases – seek fresh air.

5.3. Advice for firefighters

Wear Self-Contained Breathing Apparatus (SCBA) and a gas-tight suit. Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases – seek fresh air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Smoking and naked flames prohibited. Keep unnecessary personnel away. Shut off gas

	supply. Provide adequate ventilation. Stay upwind/keep distance from source. Wear respiratory protective equipment. Wear gloves. Wear safety goggles.
For emergency responders:	In addition to the above: Normal protective clothing. A cold protection suit is also recommended.

6.2. Environmental precautions

Avoid unnecessary release to the environment.

6.3. Methods and material for containment and cleaning up

Shut off gas supply. Provide adequate ventilation.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use the product under well-ventilated conditions. Smoking and naked flames prohibited. Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work. See item 8 for information about personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Store in a well-ventilated area. Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Legal basis:

Contains no substances subject to reporting requirements.

8.2. Exposure controls

Appropriate engineering controls:	Wear the personal protective equipment specified below. See also section 7.1.
Personal protective equipment, eye/face protection:	Wear safety goggles.
Personal protective equipment, skin protection:	Wear gloves that protect against cold and pressure effects, e.g. strong leather gloves. The gloves must be loose enough to be shaken off easily.
Personal protective equipment, respiratory protection:	In case of insufficient ventilation, wear respiratory protective equipment.
Environmental exposure controls:	Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Gas
Colour:	No data
Odour:	No data
Odour threshold:	No data
pH (solution for use):	No data
pH (concentrate):	No data
Melting point/freezing point:	No data
Initial boiling point and boiling range:	-50°C
Flash point:	No data
Evaporation rate:	No data
Flammability (solid, gas):	No data
Upper/lower flammability limits:	No data
Upper/lower explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density:	0,91
Solubility:	Insoluble in water

Partition coefficient n-octanol/water:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	No data
Oxidising properties:	No data

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product may ignite on contact with e.g. heat or a spark.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid heating and contact with ignition sources.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral:	By normal handling, gases cannot be ingested. The product does not have to be classified. Test data are not available.
Acute toxicity - dermal:	The product does not have to be classified. Test data are not available.
Acute toxicity - inhalation:	The product does not have to be classified. Test data are not available.
Skin corrosion/irritation:	Direct contact may cause frostbite. The skin becomes numb and white. Pains, reddening and wounds follow. The product does not have to be classified. Test data are not available.
Serious eye damage/eye irritation:	Splashes of gas in the eyes may cause frostbite. The product does not have to be classified. Test data are not available.
Respiratory sensitisation or skin sensitisation:	The product does not have to be classified. Test data are not available.
Germ cell mutagenicity:	The product does not have to be classified. Test data are not available.
Carcinogenic properties:	The product does not have to be classified. Test data are not available.
Reproductive toxicity:	The product does not have to be classified. Test data are not available.
Single STOT exposure:	The gas may displace atmospheric air, thereby causing risk of suffocation. Inhalation may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. The product does not have to be classified. Test data are not available.
Repeated STOT exposure:	The product does not have to be classified. Test data are not available.
Aspiration hazard:	The product does not have to be classified. Test data are not available.
Other toxicological effects:	None known.

SECTION 12: Ecological information

12.1. Toxicity

The product does not have to be classified. Test data are not available.

12.2. Persistence and degradability

Test data are not available.

12.3. Bioaccumulative potential

Test data are not available.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

No assessment has been made.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid unnecessary release to the environment.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: Transport information

ADR/RID

14.1. UN number	1030
14.2. UN proper shipping name	1,1-DIFLUOROETHANE
14.3. Transport hazard class(es)	2.1
14.4. Packing group	-
Hazard identification number	23
Tunnel restriction code:	B/D
14.5. Environmental hazards	The product should not be labelled as an environmental hazard (symbol: fish and tree).

ADN

14.1. UN number	1030
14.2. UN proper shipping name	1,1-DIFLUOROETHANE
14.3. Transport hazard class(es)	2.1
14.4. Packing group	-
14.5. Environmental hazards	The product should not be labelled as an environmental hazard (symbol: fish and tree).
Environmental hazard in tank vessels:	-

IMDG

14.1. UN number	1030
14.2. UN proper shipping name	1,1-DIFLUOROETHANE
14.3. Transport hazard class(es)	2.1
14.4. Packing group	-
14.5. Environmental hazards	The product is not a Marine Pollutant (MP).
IMDG Code segregation group:	-

ICAO/IATA

14.1. UN number	1030
14.2. UN proper shipping name	1,1-DIFLUOROETHANE
14.3. Transport hazard class(es)	2.1
14.4. Packing group	-

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.

SECTION 15: Regulatory information

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

Special provisions: None.

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

SECTION 16: Other information

Abbreviation explanations:	PBT: Persistent, Bioaccumulative and Toxic vPvB: Very Persistent and Very Bioaccumulative STOT: Specific Target Organ Toxicity
R-phrases:	R12 Extremely flammable.
H-phrases:	H220 Extremely flammable gas. H280 Contains gas under pressure, may explode if heated.
Training:	A thorough knowledge of this safety data sheet should be a prerequisite condition.
