

## SAFETY DATA SHEET

**Item Code: L0165**

<b>Section 1.</b>	<b>Identification of the material and the supplier</b>
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Item Code:	L0165
Product:	R141b
Product Use:	Refrigerant Gas
New Zealand Supplier:	Realcold Ltd
Address:	9 Prescott Street Penrose, Auckland
Telephone:	09 526 5700
Fax Number:	09 526 5721
<b>Emergency Telephone:</b>	<b>09 526 5700</b> <b>0800 766 764 (National Poison Centre)</b>
Manufacturer:	Global Refrigerants (S) Pte Ltd 9 Tuas Link 1, Singapore
Date of MSDS Preparation:	14 March 2017 – version 2

<b>Section 2.</b>	<b>Hazards Identification</b>
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**This substance is hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001**

**HSNO Class : 9.1C = Harmful to aquatic life with long lasting effects**

<b>Section 3.</b>	<b>Composition / Information on Ingredients</b>
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Ingredients	Wt%	CAS NUMBER.
Dichlorofluoroethane	99.5%	1717-00-6

<b>Section 4.</b>	<b>First Aid Measures</b>
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Routes of Exposure:

If in Eyes	Immediately flush eyes with gentle but large stream of water for at least 15 minutes. Call a physician if needed.
If on Skin	Flush with soap and water. Call a physician if needed.
If Swallowed	Rinse mouth with water, do not induct vomiting and call a doctor is needed.
If Inhaled	In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache. nausea and loss of co-ordination. In high concentrations may cause asphyxiation. Symptoms may include loss of mobility consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

**Section 5. Fire Fighting Measures**

<b>Hazard Type</b>	Not combustible Exposure to fire may cause containers to rupture or explode.
<b>Hazards from decomposition products</b>	At high temperature, thermal decomposition giving toxic and corrosive products : Carbon monoxide, Carbonyl fluoride, Hydrogen fluoride, Hydrogen chloride and Phosgene.
<b>Suitable Extinguishing media</b>	All known extinguishers can be used. If possible stop flow of product. Move away from the container and cool with water from a protected position.
<b>Precautions for firefighters and special protective clothing</b>	Wear self-contained breathing apparatus and protective suit.
<b>HAZCHEM CODE</b>	Not regulated

**Section 6. Accidental Release Measures**

Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. Try to stop release. Prevent vapour from entering sewers, basements and workpits, or any place where its accumulation can be dangerous as an asphyxiant. Ventilate area.

**Section 7. Handling and Storage**

**Handling & Storage** Suck-back of water into the container must be prevented.  
Do not allow back-feed into the container.  
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.  
Refer to supplier's container handling instructions.  
Keep container below 50°C in a well ventilated place.

**Section 8 Exposure Controls / Personal Protection**

**Engineering Controls** Ensure adequate ventilation.  
**Personal Protection**

Respiratory protection: In case of insufficient ventilation use suitable respiratory equipment.  
Eye protection : Safety glasses / goggles.  
Hand protection : Gloves.  
Hygiene measures : Avoid contact with skin and eyes and inhalation of vapours. Do not smoke.

**Section 9 Physical and Chemical Properties**

**Appearance** Colourless gas  
**Odour** Ethereal  
**Boiling Point** 32°C  
**Molecular weight** 117  
**Vapour Pressure 20°C** 0.7 bar  
  
**Solubility mg/l Water** 4000 mg/l at 25°C  
**Relative Density Liquid** 1.2(water = 1)  
**Relative Density Gas** 4.1 (air = 1)

**Other data:** Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

### Section 10. Stability and Reactivity

**Stability of Substance** The product is stable under normal conditions  
**Conditions to Avoid** May react with aluminium  
**Hazardous Decomposition Products** Thermal decomposition yields toxic products which can be corrosive in the presence of water.

### Section 11 Toxicological Information

In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination. May produce irregular heart beat and nervous symptoms,

### Section 12. Ecotoxicological Information

HSNO Class: 9.3C - Harmful to aquatic life with long lasting effects

May have damaging effect to the ozone layer. Any form of discharge into the air must be avoided.

Ozone depletion factor: 0.11(R11=1)  
Global warming factor: 630 (CO2=1)

### Section 13. Disposal Considerations

Disposal must take into account elimination of pressure container leaks and where applicable return of suspect cylinders to supplier for inspection and top-up.

### Section 14 Transport Information

This product is not classified as a Dangerous Good for transport in NZ ; NZS 5433:2007

### Section 15 Regulatory Information

EPA Approval Code: HSR005467

HSNO Classification: 9.1C

HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not applicable
Signage Trigger Quantities	1000L
Emergency Response Plan trigger Quantities	1000L

### Section 16 Other Information

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

## Disclaimer

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Please contact the New Zealand distributor, Realcold Ltd, if further information is required.

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