

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

1.1. Product identifier

PROPOWER FREEZER SPRAY
Aerosol

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

Cooling agent

1.3. Details of the supplier of the safety data sheet

Premier Farnell
150 Armley Road
Leeds LS12 2QQ
Tel. : +44 (0) 870 129 8608

1.4. Emergency telephone number

+44 (0) 870 202530

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Physical	: Aerosol, category 3 Pressurised container: May burst if heated.
Health	: Not classified.
Environment	: Not classified.
Other hazards	: 7 % by mass of the contents are flammable. Contains fluorinated greenhouse gases: HFC-134a.

Classification according to 67/548/EEC or 1999/45/EC:

Health	: Not classified.
Physical	: Not classified.
Environment	: Not classified.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Signal word	: Warning
Hazard pictogram(s)	: H229 : Pressurised container: May burst if heated.
Precautionary statement(s)	: P102 : Keep out of reach of children. P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251 : Do not pierce or burn, even after use. P410/412 : Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P501-2 : Dispose of contents/container to an authorised waste collection point.
Supplemental Hazard Information	: 7 % by mass of the contents are flammable. Contains fluorinated greenhouse gases: HFC-134a

2.3. Other hazards

In case of contact with liquid product frostbite symptoms may occur.
Aerosols may explode if heated above 50°C

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Hazardous ingredient	CAS-nr.	EC-nr	w/w %	symbol	R-phrases*	Notes
tetrafluoroethane	811-97-2	212-377-0	60-100	-	-	B
dimethyl ether	115-10-6	204-065-8	5-10	F+	12	A

Explanation notes

A : substance with Community workplace exposure limit

B : substance with national established workplace exposure limit

Hazardous ingredient	Registration number	CAS-nr.	EC-nr	w/w %	Hazard Class and Category	Hazard Statement	Notes
tetrafluoroethane	01-2119459374-33	811-97-2	212-377-0	60-100	Press. Gas	H280	B
dimethyl ether	01-2119472128-37	115-10-6	204-065-8	5-10	Flam. Gas 1, Press. Gas	H220, H280	A

Explanation notes

A : substance with Community workplace exposure limit

B : substance with national established workplace exposure limit

(*Explanation phrases : see chapter 16)

SECTION 4: First aid measures

4.1. Description of first aid measures

- Contact with eyes : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- Contact with skin : In case of contact with liquid, thaw frosted parts with water, remove clothing carefully and wash with soap & water
Seek medical advice.
- Inhalation : Fresh air, keep warm and at rest.
- Ingestion : In case of accident or if you feel unwell, seek medical advice
(show the label where possible)

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

- Inhalation : Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness
- Ingestion : In case of exposure to substance or its vapours, obtain special treatment by doctor as soon as possible
- Skin contact : In case of contact with liquid product frostbite symptoms may occur.
- Eye contact : In case of contact with liquid product frostbite symptoms may occur.

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

- General Advice : In case of accident or if you feel unwell, seek medical advice
(show the label where possible)
If symptoms persist always call a doctor

SECTION 5: Fire fighting measures

5.1. Extinguishing media

Water, foam, carbon dioxide or dry agent

5.2. Special hazards arising from the substance or mixture

Aerosols may explode if heated above 50°C

Forms hazardous decomposition products

CO, CO₂

HF may be formed under condition of fire

5.3. Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water

In case of fire, do not breathe fumes

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Shut off all ignition sources

Ensure adequate ventilation

Wear suitable protective clothing and gloves.

6.2. Environmental precautions

Do not allow to enter public sewers and watercourses

6.3. Methods and material for containment and cleaning up

Allow product to evaporate

6.4. Reference to other sections

For further information see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep away from heat and sources of ignition

Do not spray on a naked flame or incandescent material.

Do not pierce or burn aerosols, even after use.

Do not breathe aerosols or vapours.

Ensure adequate ventilation

Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

Store in a well-ventilated place.

Keep out of reach of children.

7.3. Specific end use(s)

Cooling agent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits:

Hazardous ingredient	CAS-nr.	method	
EU established exposure limits:			
dimethyl ether	115-10-6	TWA	1000 ppm
National established exposure limits, United Kingdom			
dimethyl ether	115-10-6	TWA	400 ppm
		STEL	500 ppm
tetrafluoroethane	811-97-2	TWA	1000 ppm

8.2. Exposure controls

Control procedures	: Ensure adequate ventilation Keep away from heat and sources of ignition.
Personal protection	: Take precautions to avoid contact with skin and eyes when handling the product. Ensure adequate ventilation.
Inhalation	: In case of insufficient ventilation, wear suitable respiratory equipment. Compressed air mask.
Hands and Skin	: Wear suitable protective gloves against chemicals
Recommended gloves	: Nitrile
Eyes	: Wear safety goggles.
Environmental protection	: Avoid release to the environment.
Consumer exposure protection	: Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(for aerosols data for the product without propellant)

Appearance : physical state	: Liquified gas.
Colour	: Colorless.
Odour	: Characteristic odor
pH	: Not applicable.
Boiling point/range	: Not available.
Flash point	: None
Evaporation rate	: Not available
Explosion limits : upper limit	: Not available.
Lower limit	: Not available.
Vapour pressure	: Not available.
Relative density	: Not available.
Solubility in water	: Insoluble in water
Auto-ignition	: > 200°C
Viscosity	: Not available.

9.2. Other information

-

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used for its intended purpose

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

10.4. Conditions to avoid

Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.
Avoid overheating

10.5. Incompatible materials

Strong oxidising agent

10.6. Hazardous decomposition products

CO, CO₂
HF may be formed under condition of fire

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure:

Inhalation	: Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness
Ingestion	: Ingestion is unlikely to occur
Skin contact	: In case of contact with liquid product frostbite symptoms may occur.
Eye contact	: In case of contact with liquid product frostbite symptoms may occur.

Toxicological data:

Hazardous ingredient	CAS-nr.	method	
tetrafluoroethane	811-97-2	LC50 inhal.rat	567000 ppm

SECTION 12: Ecological information

12.1. Toxicity

Not classified

Ecotoxicological data:

Hazardous ingredient	CAS-nr.	method	
tetrafluoroethane	811-97-2	LC50 fish	450 mg/l
		EC50 daphnia	980 mg/l

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

Insoluble in water

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : This material and its container must be disposed of in a safe way.
Do not discharge into drains or the environment, dispose to an authorised waste collection point.

Contaminated packaging : Disposal should be in accordance with local, state or national legislation

SECTION 14: Transport information

14.1. UN number

UN-number : 1950

14.2. UN proper shipping name

Proper shipping name : AEROSOLS

14.3. Transport hazard class(es)

Class : 2.2

ADR/RID - Classification code : 5A

14.4. Packing group

Packing group : Not applicable.

14.5. Environmental hazards

ADR/RID - Environmentally hazardous : No

IMDG - Marine pollutant : No

IATA/ICAO - Environmentally hazardous : No

14.6. Special precautions for user

ADR/RID - Tunnel code : (E)

IMDG - Ems : F-D, S-U

IATA/ICAO - PAX : 203

IATA/ICAO - CAO : 203

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

The Safety Data Sheet is compiled according to the current European requirements.

Dir. 2013/10/EU, 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.

EU-directive 99/45/EC

Regulation (EC) No 1272/2008 (CLP)

Regulation (EC) No 1907/2006 (REACH)

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

*Explanation risk-phrases : R12: Extremely flammable.

*Explanation hazard statements : H220 : Extremely flammable gas.

H280 : Contains gas under pressure; may explode if heated.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties.

Part Number

PPC102

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. pro-POWER is the registered trademark of the Group. © Premier Farnell plc 2012.