

PRF 101 Green

Date 12.6.2017

Previous date: 13.3.2017

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****1.1.1 Commercial Product Name**

PRF 101 Green

1.1.2 Product code

PE101G52N

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Recommended use**

Refrigerant

1.3 Details of the supplier of the safety data sheet**1.3.1 Supplier**

Taerosol Oy

Street address

Hampuntie 21

Postcode and post office

36220

Postcode and post office

Kangasala Finland

Telephone

03-3565600

Email

heikki.jalava@taerosol.com

1.4 Emergency telephone number**1.4.1 Telephone number, name and address**

FIN: 09-471 977 tai 09-4711 Myrkytystietokeskus / HUS, PL 340 (Haartmaninkatu 4), 00029 HUS (Helsinki)

SV: Giftinformationscentralen :+46 8 33 12 31

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****1272/2008 (CLP)**

H229

2.2 Label elements**1272/2008 (CLP)**Signal word **Warning****Hazard Statements**

H229 Pressurised container: May burst if heated.

Precautionary Statements

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P102 Keep out of reach of children.

2.3 Other hazards**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components****CAS/EC and Reg.
number**

29118-24-9

**Chemical name of the
substance**

trans-1,3,3,3-tetrafluoroprop-1-ene95-100%

Concentration Classification**3.3 Other information**

Will not burn (aerosol)

4. FIRST AID MEASURES

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4.1 Description of first aid measures

When symptoms persist or in all cases of doubt seek medical advice. Liquid product causes severe burns, irritation of the digestive system and badly healing sores.

4.1.2 Inhalation

In the case of inhalation of aerosol/mist consult a physician if necessary.

4.1.3 Skin contact

Treat frost-bitten areas as needed. Avoid skin contact with leaking liquid (danger of frostbite).

4.1.4 Eye contact

Flush eyes with water as a precaution. RSh 3 - Contact with vapour causes burns to skin and eyes and contact with liquid causes freezing.

4.1.5 Ingestion

Ingestion causes burns of the upper digestive and respiratory tracts. Do NOT induce vomiting. When symptoms persist or in all cases of doubt seek medical advice. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The product causes burns of eyes, skin and mucous membranes.

4.3 Indication of immediate medical attention and special treatment needed

None known.

5. FIREFIGHTING MEASURES

Will not burn

5.1 Extinguishing media**5.1.1 Suitable extinguishing media**

Will not burn

5.1.2 Extinguishing media which must not be used for safety reasons

Will not burn

5.2 Special hazards arising from the substance or mixture

Heating may cause an explosion.

5.3 Advice for firefighters

Heating may cause an explosion.

5.4 Specific methods

None known. -

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Immediately evacuate personnel to safe areas.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Not relevant for the product itself.

6.4 Reference to other sections

not determined

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Keep in a well-ventilated place. Keep away from heat and sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Keep product and empty container away from heat and sources of ignition.

7.3 Specific end use(s)

not determined

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters			
	not determined			
8.1.1	Threshold limits			
	29118-24-9	trans-1,3,3,3-tetrafluoroprop-1-ene	830 ppm (8 h)	3902 mg/m ³ (8 h)
8.1.2	Other information on limit values			
	not determined			
8.1.3	Limit values in other countries			
	None known.			
8.1.4	DNELs			
	None known.			
8.1.5	PNECs			
	None known.			
8.2	Exposure controls			
8.2.1	Appropriate engineering controls			
	None known.			
8.2.2	Individual protection measures			
8.2.2.1	Respiratory protection			
	not required under normal use			
8.2.2.2	Hand protection			
	For prolonged or repeated contact use protective gloves.			
8.2.2.3	Eye/face protection			
	Wear the following personal protective equipment: Goggles			
8.2.2.4	Skin protection			
	For prolonged or repeated contact use protective gloves.			
8.2.3	Environmental exposure controls			
	not determined -			

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Important Health Safety and Environmental Information	
9.1.1	Appearance	
	Aerosol	
9.1.2	Odour	odourless
9.1.3	Odour threshold	not determined
9.1.4	pH	not determined
9.1.5	Melting point/freezing point	not determined
9.1.6	Initial boiling point and boiling range	-19°C
9.1.7	Flash point	not determined
9.1.8	Evaporation rate	not determined
9.1.9	Flammability (solid, gas)	Will not burn
9.1.10	Explosive properties	
9.1.10.1	Lower explosion limit	not determined
9.1.10.2	Upper explosion limit	not determined
9.1.11	Vapour pressure	not determined
9.1.12	Vapour density	not determined
9.1.13	Relative density	1170Kg/m ³

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9.1.14	Solubility(ies)	
9.1.14.1	Water solubility	not determined
9.1.14.2	Fat solubility (solvent - oil to be specified)	not determined
9.1.15	Partition coefficient: n-octanol/water	not determined
9.1.16	Auto-ignition temperature	not determined
9.1.17	Decomposition temperature	not determined
9.1.18	Viscosity	not determined
9.1.19	Explosive properties	not determined
9.1.20	Oxidising properties	not determined
9.2	Other information	not determined

10. STABILITY AND REACTIVITY

10.1	Reactivity	not determined
10.2	Chemical stability	not determined
10.3	Possibility of hazardous reactions	not determined
10.4	Conditions to avoid	Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep away from children.
10.5	Incompatible materials	not determined
10.6	Hazardous decomposition products	not determined

11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	not determined
11.1.1	Acute toxicity	not determined
11.1.2	Irritation and corrosion	not determined
11.1.3	Sensitisation	not determined
11.1.4	Subacute, subchronic and prolonged toxicity	not determined

12. ECOLOGICAL INFORMATION

12.1	Toxicity	
12.1.1	Aquatic toxicity	not determined
12.1.2	Toxicity to other organisms	not determined
12.2	Persistence and degradability	
12.2.1	Biodegradation	not determined

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- 12.2.2 Chemical degradation**
not determined
- 12.3 Bioaccumulative potential**
not determined
- 12.4 Mobility in soil**
not determined
- 12.5 Results of PBT and vPvB assessment**
not determined
- 12.6 Other adverse effects**
not determined

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
not determined
- 13.2 Waste from residues / unused products**
not determined

14. TRANSPORT INFORMATION

- 14.1 UN number** 1950
- 14.2 UN proper shipping name** Aerosol
- 14.3 Transport hazard class(es)** 2.2
- 14.4 Packing group** -
- 14.5 Environmental hazards** not determined
- 14.6 Special precautions for users**
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
not determined
- 15.2 Chemical safety assessment**
not determined

16. OTHER INFORMATION

- 16.1 Additions, Deletions, Revisions**
REGULATION (EC) No 453/2010
- 16.8 Additional information available from:**
tilaukset(at)taerosol.com