SAFETY DATA SHEET PRF 101 Green

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	12.06.2017
Revision date	12.06.2017

1.1. Product identifier

Product name	PRF 101 Green
Article no.	PE101G52N
Extended SDS with ES incorporated	No

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

Use of the substance / preparation	Refrigerant
The chemical can be used by the general public	Yes

1.3. Details of the supplier of the safety data sheet

Company name	Taerosol Oy
Postal address	Hampuntie 21
Postcode	36220
City	Kangasala
Country	Finland
Telephone number	+358 33565600
Website	www.taerosol.com
Enterprise No.	02847686

1.4. Emergency telephone number

Emergency telephone	Description: FIN: 09-471 977 tai 09-4711 Myrkytystietokeskus / HUS, PL 340
	(Haartmaninkatu 4), 00029 HUS (Helsinki)
	SV: Giftinformationscentralen :+46 8 33 12 31

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.2. Label elements

Composition on the label	trans-1,3,3,3-tetrafluroprop-1-ene 95 - 100 %
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 no expose to temperatures exceeding 50 °C / 122°F. P210 Keep away from . No smoking. P102 Keep out of reach of children.

2.3. Other hazards

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
trans-1,3,3,	CAS No.: 29118-24-9		95 - 100 %
3-tetrafluroprop-1-ene			
Substance comments	Will not burn (aerosol)		

SECTION 4: First aid measures

4.1. Description of first aid measures

General	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.
Inhalation	In the case of inhalation of aerosol/mist consult a physician if necessary.
Skin contact	Treat frost-bitten areas as needed. Avoid skin contact with leaking liquid (danger of frostbite).
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.
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

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

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

Medical treatment

None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Will not burn
Improper extinguishing media	Will not burn

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards H	Heating may cause an explosion.
------------------------------	---------------------------------

5.3. Advice for firefighters

Personal protective equipment	Heating may cause an explosion.
Fire fighting procedures	Will not burn
Other information	None known

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Immediately evacuate personnel to safe areas.
------------------	---

6.2. Environmental precautions

Environmental precautionary	No special environmental precautions required.
measures	

6.3. Methods and material for containment and cleaning up

6.4. Reference to other sections

Other instructions not determined

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Specific use(s)

not determined

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Value	TWA Year
trans-1,3,3,	CAS No.: 29118-24-9	Limit value type: HTP	

3-tetrafluroprop-1-ene

TWA (8h) : 830 ppm Limit value type: HTP TWA (8h) : 3902 mg/m3

DNEL / PNEC

DNEL	Comments: None known.
PNEC	Comments: None known.
Control parameters comments	not determined not determined None known.

8.2. Exposure controls

Precautionary measures to prevent exposure

Product related measures to None kr prevent exposure	iown.
---	-------

Respiratory protection

Respiratory protection, comments	not required under normal use

Hand protection

Required properties for hand	For prolonged or repeated contact use protective gloves.
protection	

Eye / face protection

Required Properties	Wear the following personal protective equipment: Goggles

Skin protection

Skin protection remark	For prolonged or repeated contact use protective gloves.
------------------------	--

Appropriate environmental exposure control

Environmental exposure controls not determined -

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Aerosol
Odour	odourless
Odour limit	Comments: not determined
Melting point / melting range	Comments: not determined
Boiling point / boiling range	Comments: -19°C
Flash point	Comments: not determined
Flammability (solid, gas)	Will not burn
Vapour pressure	Comments: not determined

Partition coefficient: n-octanol/ water	Comments: not determined
Spontaneous combustability	Comments: not determined
Decomposition temperature	Comments: not determined
Viscosity	Comments: not determined
Explosive properties	not determined
Oxidising properties	not determined

9.2. Other information

Other physical and chemical properties

Physical and chemical properties not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	not determined
10.2. Chemical stability	
Stability	not determined
10.3. Possibility of hazardous reactions	
Possibility of hazardous reactions	not determined

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

Materials to avoid	not determined

10.6. Hazardous decomposition products

Hazardous decomposition not determined products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other information regarding health hazards

General not determined

Acute toxicity, Mixture estimate

PRF TUT GIEEIT- VEISIOIT I	Fage 0 01 7	
Assessment of acute toxicity, classification	not determined	
Potential acute effects		
Irritation	not determined	
Delayed effects / repeated	exposure	
General respiratory or skin sensitisation	not determined	
Carcinogenic, Mutagenic or Reprotoxic		
Assessment of carcinogenicity, classification	not determined	
SECTION 12: Ecological	information	
12.1. Toxicity		
Ecotoxicity	not determined not determined	
12.2. Persistence and degra	12.2. Persistence and degradability	
Persistence degradability additional information	not determined	
Persistence and degradability, comments	not determined	
12.3. Bioaccumulative pote	ential	
Bioaccumulative potential	not determined	
12.4. Mobility in soil		
Mobility	not determined	
12.5. Results of PBT and vPvB assessment		
PBT assessment results	not determined	
12.6. Other adverse effects		
Other adverse effects, comments	not determined	

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	not determined
Other information	not determined

SECTION 14: Transport information

14.1. UN number

ADR / RID / ADN	1950
IMDG	1950
ICAO / IATA	1950

14.2. UN proper shipping name

ADR / RID / ADN	Aerosol
IMDG	Aerosol
ICAO / IATA	Aerosol

14.3. Transport hazard class(es)

ADR / RID / ADN	2.2
IMDG	2.2
ICAO / IATA	2.2
Comments	2.2

14.4. Packing group

Comments

14.5. Environmental hazards

Comments not determined

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

SECTION 15: Regulatory information

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

Legislation and regulations not determined

15.2. Chemical safety assessment

Chemical safety assessment not determined

SECTION 16: Other information	
Additional information	tilaukset(at)taerosol.com
Information added, deleted or revised	REGULATION (EC) No 453/2010
Version	1