

PRF 4-44 Green NFL

Date 31.10.2017

Previous date: 10.8.2017

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

PRF 4-44 Green NFL

1.1.2 Product code

PE44G52N

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

Cleaning agent

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**

09-471 977 tai 09-4711 Myrkytystietokeskus / HUS

PL 340 (Haartmaninkatu 4), 00029 HUS (Helsinki)

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

Aerosol 3, H229

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

H229 Pressurised container: May burst if heated.

Precautionary Statements

P102 Keep out of reach of children.

P251 Do not pierce or burn, even after use.

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

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

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

1645-83-6

Chemical name of the substance

trans-1,3,3,3-Tetrafluoroprop-1-ene

Concentration Classification

95-100%

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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.

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**5. FIREFIGHTING MEASURES****5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

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.

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

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)**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****8.1.1 Threshold limits**

1645-83-6	1.3.3.3.-	830 ppm (8 h)
	tetrafluoropropene	

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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.

8.2 Exposure controls**8.2.2 Individual protection measures****8.2.2.1 Respiratory protection**

No special precautions required.

8.2.2.2 Hand protection

No special precautions required.

8.2.2.3 Eye/face protection

No special precautions required.

8.2.2.4 Skin protection

No special precautions required.

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

Will not burn

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 density1170Kg/m³**9.1.14 Solubility(ies)****9.1.14.1 Water solubility**

0,373g/l

9.2 Other information**10. STABILITY AND REACTIVITY****10.1 Reactivity**

Stable under normal conditions.

10.2 Chemical stability**10.3 Possibility of hazardous reactions**

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.

10.5 Incompatible materials

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10.6 Hazardous decomposition products**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

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11.1.1 Acute toxicity

not applicable

12. ECOLOGICAL INFORMATION**12.1 Toxicity****12.2 Persistence and degradability****12.3 Bioaccumulative potential****12.4 Mobility in soil****12.5 Results of PBT and vPvB assessment****12.6 Other adverse effects****13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****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** -**14.6 Special precautions for users**

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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

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15.2 Chemical safety assessment

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16. OTHER INFORMATION**16.1 Additions, Deletions, Revisions**

REGULATION (EC) No 453/2010

16.8 Additional information available from:

tilaukset(at)taerosol.com