

SAFETY DATA SHEET**PRF 4-44 FL**

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	03.10.2017
Revision date	03.10.2017

1.1. Product identifier

Product name	PRF 4-44 FL
Article no.	PE4452, PE4422
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	Cleaning agent
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	Telephone number: 112 / Finnish Poison Information Center: 0800 147 111, 24/7
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SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Aerosol 1; H222
	Aerosol 1; H229

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label	Propane 40 – 55 %, Butane 40 – 55 %
Signal word	Danger
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.
Precautionary statements	P251 Do not pierce or burn, even after use. P210 Keep away from . No smoking. P211 Do not spray on an open flame or other ignition source. P102 Keep out of reach of children. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.

2.3. Other hazards

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Propane	CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5	Flam. Gas 1; H220 Press. Gas	40 – 55 %	
Butane	CAS No.: 106-97-8 EC No.: 200-857-2	Flam. Gas 1; H220 Press. Gas	40 – 55 %	
Substance comments	aerosoli			

SECTION 4: First aid measures

4.1. Description of first aid measures

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.

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

Medical treatment	not determined -
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	ABC powder
Improper extinguishing media	Do NOT use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Heating may cause an explosion.
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5.3. Advice for firefighters

Personal protective equipment	Heating may cause an explosion.
Other information	not determined

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Immediately evacuate personnel to safe areas.
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6.2. Environmental precautions

Environmental precautionary measures	No special environmental precautions required.
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6.3. Methods and material for containment and cleaning up

Other information	Not relevant for the product itself.
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6.4. Reference to other sections

Other instructions	not determined
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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.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Keep product and empty container away from heat and sources of ignition.
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7.3. Specific end use(s)

Specific use(s)	not determined
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SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Propane	CAS No.: 74-98-6	Limit value (8 h) : 800 ppm Limit value (short term) Value: 1100 ppm Limit value (8 h) : 1500 mg/m ³ Limit value (short term) Value: 2000 mg/m ³	
Butane	CAS No.: 106-97-8	Limit value (8 h) : 800 ppm Limit value (short term) Value: 1000 ppm Limit value (8 h) : 1900 mg/m ³ Limit value (short term) Value: 2350 mg/m ³	
Control parameters comments	not determined not determined not determined		

DNEL / PNEC

DNEL	Comments: not determined
PNEC	Comments: not determined

8.2. Exposure controls

Precautionary measures to prevent exposure

Product related measures to prevent exposure	not determined
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Eye / face protection

Required Properties	Use respirator when performing operations involving potential exposure to vapour of the product.
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Hand protection

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

Skin protection remark	Wear suitable gloves and eye/face protection.
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Respiratory protection

Respiratory protection, comments	not determined
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Appropriate environmental exposure control

Environmental exposure controls	not determined
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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: -26°C
Flash point	Comments: not determined
Flammability	Flammable gas, may cause flash fire.
Vapour pressure	Comments: not determined
Partition coefficient: n-octanol/ water	Comments: not determined
Auto-ignition temperature	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
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	not determined
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10.2. Chemical stability

Stability	not determined
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	not determined
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10.4. Conditions to avoid

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.
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10.5. Incompatible materials

Materials to avoid	not determined
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10.6. Hazardous decomposition products

Hazardous decomposition products	not determined
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other information regarding health hazards

General	not determined
Assessment of acute toxicity, classification	not determined
Irritation	not determined
General respiratory or skin sensitisation	not determined

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	not determined not determined
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12.2. Persistence and degradability

Persistence degradability additional information	not determined
Persistence and degradability, comments	not determined

12.3. Bioaccumulative potential

Bioaccumulative potential	not determined
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12.4. Mobility in soil

Mobility	not determined
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12.5. Results of PBT and vPvB assessment

PBT assessment results	not determined
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12.6. Other adverse effects

Other adverse effects, comments	not determined
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	not determined
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Other information	not determined
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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	2.1
IMDG	2.1
ICAO/IATA	2.1
Comments	2.1

14.4. Packing group

Comments	-
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14.5. Environmental hazards

Comments	-
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14.6. Special precautions for user

Special safety precautions for user	not determined
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14.7. Maritime transport in bulk according to IMO instruments

Pollution category	not determined
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SECTION 15: Regulatory information

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

Legislation and regulations	not determined
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15.2. Chemical safety assessment

Chemical safety assessment	not determined
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SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.
Additional information	tilaukset(at)taerosol.com
Information added, deleted or revised	REGULATION (EC) No 453/2010
Version	2