

SAFETY DATA SHEET**PRF 5-99**

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 5-99
Article no.	PE59952,PE59922
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	Lubricant
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: 09-471 977 tai 09-4711 Myrkytystietokeskus / HUS PL 340 (Haartmaninkatu 4), 00029 HUS (Helsinki)
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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;
Substance / mixture hazardous properties	Aerosol 1

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label	Butan 15 - 25 %, Propan 15 - 25 %, Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics 30 - 45 %, propan-2-ol isopropyl alcohol isopropanol 2 - 5 %
Signal word	Danger
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.
Precautionary statements	P102 Keep out of reach of children. P210 Keep away from . No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P262 Do not get in eyes, on skin, or on clothing. P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C / 122°F.
Supplemental label information	EUH 066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Butan	CAS No.: 106-97-8 EC No.: 200-857-2	Flam. Gas 1; H220 Press. Gas	15 - 25 %
Propan	CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5	Flam. Gas 1; H220 Press. Gas	15 - 25 %
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS No.: 64742-48-9 EC No.: 265-150-3 Index No.: 649-327-00-6	Carc. 1B; H350 Muta. 1B; H340 Asp. tox. 1; H304	30 - 45 %
propan-2-ol isopropyl alcohol isopropanol	CAS No.: 67-63-0 EC No.: 200-661-7	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	2 - 5 %

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.
Inhalation	In the case of inhalation of aerosol/mist consult a physician if necessary.
Skin contact	Get medical attention if symptoms occur.
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
Ingestion	Aspiration hazard if swallowed - can enter lungs and cause damage. If swallowed, call a poison control centre or doctor immediately.

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

General symptoms and effects	Aspiration hazard if swallowed - can enter lungs and cause damage.
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4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Alcohol-resistant foam
Improper extinguishing media	Do NOT use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Explosive reaction may occur on heating or burning.
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5.3. Advice for firefighters

Personal protective equipment	Alcohol-resistant foam
Other information	Immediately evacuate personnel to safe areas.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Prevent unauthorised persons entering the zone. Prevent unauthorised persons entering the zone. Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.
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6.2. Environmental precautions

Environmental precautionary measures	Prevent product from entering drains.
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6.3. Methods and material for containment and cleaning up

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

Do not use in areas without adequate ventilation. No sparking tools should be used. Do not taste or swallow. Do not spray on a naked flame or any incandescent material. Do not smoke. Do not empty into drains. Do not store near combustible materials. Take precautionary measures against static discharges. Prevent vapour buildup by providing adequate ventilation during and after use.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Do not store near combustible materials. Storage of flammable liquids

7.3. Specific end use(s)

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Value	TWA Year
Butan	CAS No.: 106-97-8	TWA (8h) : 800 ppm	
	EC No.: 200-857-2	OEL short term value	
		Value: 1000 ppm	
Propan	CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5	TWA (8h) : 1900 mg/m ³	
		OEL short term value	
		Value: 2350 mg/m ³	
Propan	CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5	TWA (8h) : 800 ppm	
		OEL short term value	
		Value: 1100 ppm	
Propan	CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5	TWA (8h) : 1500 mg/m ³	
		OEL short term value	
		Value: 2000 mg/m ³	

DNEL / PNEC

DNEL

Comments: not determined

PNEC

Comments: not determined

8.2. Exposure controls

Respiratory protection

Respiratory protection, comments

Provide adequate ventilation. Do not inhale aerosol. Even in case of a full release, due to the small amount of substances present, it is not expected that exposure limits will be reached.

Hand protection

Required properties for hand protection

It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible.

Eye / face protection

Required Properties

Avoid contact with eyes.

Skin protection

Skin protection remark	Avoid contact with skin.
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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	aerosol
Odour	hydrocarbon-like
Odour limit	Comments: not determined
Melting point / melting range	Comments: -10°C
Boiling point / boiling range	Comments: < -20 °C
Flash point	Comments: < 0 °C
Flammability (solid, gas)	Extremely flammable.
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reactivity	Exposure to sunlight.
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10.2. Chemical stability

Stability	Stable
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	-
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10.4. Conditions to avoid

Conditions to avoid	Do not expose to temperatures above 50 °C.
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10.5. Incompatible materials**10.6. Hazardous decomposition products**

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity, Mixture estimate

Assessment of acute toxicity, classification	LD50/oral/rat = 16750 OECD Test Guideline 401 LC50/inhalation/ 4 h/rat = 259000mg/m ³ OECD Test Guideline 403 LD50/dermal/rabbit = 3350mg/kg OECD Test Guideline 402
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Potential acute effects

Irritation	Solvents may decrease the skin. Prolonged skin contact may cause skin irritation.
Aspiration hazard, comments	Aspiration hazard if swallowed - can enter lungs and cause damage.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	LC50/96h/rainbow trout = 10<LC/EC LC50/96h/algae = 10mg/l Taking into consideration the properties of several components, the product is estimated to be biodegradable according to OECD classification.
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12.2. Persistence and degradability

Persistence degradability additional information	Readily biodegradable, according to appropriate OECD test.
Persistence and degradability, comments	Bioaccumulation is unlikely.

12.3. Bioaccumulative potential

Bioaccumulative potential	Bioaccumulation is unlikely.
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12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not burn, or use a cutting torch on, the empty drum. Dispose of in accordance with local regulations.
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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	Aerosols
IMDG	Aerosols
ICAO / IATA	Aerosols

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	Environmentally hazardous
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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	2B - Aerosols
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15.2. Chemical safety assessment**SECTION 16: Other information**

List of relevant H-phrases (Section 2 and 3)	<p>H220 Extremely flammable gas.</p> <p>H222 Extremely flammable aerosol.</p> <p>H225 Highly flammable liquid and vapour.</p> <p>H229 Pressurised container: May burst if heated.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H319 Causes serious eye irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H340 May cause genetic defects</p>
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	H350 May cause cancer
Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Aerosol 1; H222; Aerosol 1; H229;
Additional information	tilaukset(at)taerosol.com
Information added, deleted or revised	REGULATION (EC) No 453/2010
Version	1