

SAFETY DATA SHEET

PRF Butangas

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 | 05.07.2017 |
| Revision date | 05.07.2017 |

1.1. Product identifier

| | |
|-----------------------------------|--------------|
| Product name | PRF Butangas |
| Article no. | PIBUTA40 |
| Extended SDS with ES incorporated | No |

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

| | |
|--|-------------------|
| Use categories nordic (UCN). | Polttoaineet (27) |
| Use of the substance / preparation | Refill gas |
| Standard industrial classification (NACE) | Teollisuus (C) |
| 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) |
|---------------------|--|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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|--|------------------------------------|
| 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 | Propan 40 - 55 %, Butan 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 no 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 |
|-----------|--|---------------------------------|-----------|-------|
| Propan | CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 | Flam. Gas 1; H220 Press. Gas | 40 - 55 % | |
| Butan | CAS No.: 106-97-8 EC No.: 200-857-2 | Flam. Gas 1; H220 Press. Gas | 40 - 55 % | |

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|--------------|--|
| General | When symptoms persist or in all cases of doubt seek medical. 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. |
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4.2. Most important symptoms and effects, both acute and delayed

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|------------------------------|--|
| 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

SECTION 5: Firefighting measures

5.1. Extinguishing media

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|------------------------------|-----------------------|
| Suitable extinguishing media | Foam |
| Improper extinguishing media | Do NOT use water jet. |

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

| | |
|-------------------------------|---------------------------------|
| Personal protective equipment | Heating may cause an explosion. |
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
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| 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. |
|-------------------|--------------------------------------|

6.4. Reference to other sections

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

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

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

| Substance | Identification | Exposure limits | TWA Year |
|-----------|-------------------|---|----------|
| Propan | CAS No.: 74-98-6 | Limit value (8 h) : 800 ppm Limit value (short term) Value: 1100 ppm Limit value (8 h) : 1500 mg/ m3 Limit value (short term) Value: 2000 mg/m3 | |
| Butan | CAS No.: 106-97-8 | Limit value (8 h) : 800 ppm Limit value (short term) Value: 1000 ppm Limit value (8 h) : 1900 mg/ m3 Limit value (short term) Value: 2350 mg/m3 | |

DNEL / PNEC

| | |
|------|-------------------------|
| DNEL | Comments: ei määritetty |
| PNEC | Comments: ei määritetty |

8.2. Exposure controls

Eye / face protection

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

Hand protection

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|---|---|
| Required properties for hand protection | For prolonged or repeated contact use protective gloves. EN 374:n mukaiset suojakäsineet. |
|---|---|

Skin protection

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|------------------------|---|
| Skin protection remark | Wear suitable gloves and eye/face protection. |
|------------------------|---|

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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|-------------------------------|--------------------------------------|
| Physical state | Aerosoli |
| Odour | odourless |
| Odour limit | Comments: not determined |
| Melting point / melting range | Comments: not determined |
| Boiling point / boiling range | Comments: -26°C |
| Flash point | Comments: < 0 °C |
| Flammability (solid, gas) | Flammable gas, may cause flash fire. |
| 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

10.2. Chemical stability

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

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|---------------------|---|
| 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

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

SECTION 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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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 | Aerosoli |
| IMDG | Aerosoli |
| ICAO/IATA | Aerosoli |

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

| | |
|-------------|---|
| ADR/RID/ADN | 2 |
| IMDG | 2 |
| ICAO/IATA | 2 |

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

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|-----------------------------|--------------------------------|
| Legislation and regulations | VOC: Directive 1999/13/EC 100% |
|-----------------------------|--------------------------------|

15.2. Chemical safety assessment

SECTION 16: Other information

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| List of relevant H-phrases (Section 2 and 3) | H220 Extremely flammable gas. H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. |
|--|--|

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|---------------------------------------|-----------------------------|
| Additional information | tilaukset(at)taerosol.com |
| Information added, deleted or revised | REGULATION (EC) No 453/2010 |
| Version | 1 |