

PRF Butan gas

Date 11.11.2013

Previous date: 4.10.2013

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

PRF Butan gas

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

Refill gas

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

tarmo.dahlman@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)**

Flam. Aerosol 1, H222

67/548/EEC - 1999/45/EC

F+; R12

2.2 Label elements**1272/2008 (CLP)**

GHS02

Signal word

Danger**Hazard Statements**

H222

Extremely flammable aerosol.

Precautionary Statements

P251

Pressurized container: Do not pierce or burn, even after use.

P210

Keep away from heat/sparks/open flames/hot surfaces. - 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

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**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

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CAS/EC and Reg. number**Chemical name of the substance****Concentration Classification**

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| | | | |
|----------|---------|--------|--|
| 74-98-6 | propan | 40-55% | F+; R12 ;Flam. Gas 1, H220; Press. Gas 200-827-9 |
| 106-97-8 | Butaani | 40-55% | F+; R12 ;Flam. Gas 1, H220; Press. Gas 200-857-2 |

3.3 Other information

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4. FIRST AID MEASURES**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

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

ABC powder

5.1.2 Extinguishing media which must not be used for safety reasons

Do NOT use water jet.

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.

5.4 Specific methods

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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

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7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Keep in a well-ventilated place. 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)**
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
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- 8.1.1 Threshold limits**
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|----------|---------|------------------------------|---------------------------------|
| 74-98-6 | propan | 800 ppm (8 h) | 1100 ppm (15 min) |
| | | 1500 mg/m ³ (8 h) | 2000 mg/m ³ (15 min) |
| 106-97-8 | Butaani | 800 ppm (8 h) | 1000 ppm (15 min) |
| | | 1900 mg/m ³ (8 h) | 2400 mg/m ³ (15 min) |
- 8.1.2 Other information on limit values**
-
- 8.1.3 Limit values in other countries**
-
- 8.1.4 DNELs**
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- 8.2 Exposure controls**
- 8.2.2 Individual protection measures**
- 8.2.2.1 Respiratory protection**
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- 8.2.2.2 Hand protection**
For prolonged or repeated contact use protective gloves.
- 8.2.2.3 Eye/face protection**
Use respirator when performing operations involving potential exposure to vapour of the product.
- 8.2.2.4 Skin protection**
Wear suitable gloves and eye/face protection.
- 8.2.3 Environmental exposure controls**
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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**
-
- 9.1.4 pH**
-
- 9.1.5 Melting point/freezing point**
-
- 9.1.6 Initial boiling point and boiling range**
-26°C
- 9.1.7 Flash point**
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- 9.1.8 Evaporation rate**
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- 9.1.9 Flammability (solid, gas)**
Flammable gas, may cause flash fire.

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|-----------------|---|---|
| 9.1.10 | Explosive properties | |
| 9.1.10.1 | Lower explosion limit | - |
| 9.1.10.2 | Upper explosion limit | - |
| 9.1.11 | Vapour pressure | - |
| 9.1.12 | Vapour density | - |
| 9.1.13 | Relative density | - |
| 9.1.14 | Solubility(ies) | |
| 9.1.14.1 | Water solubility | - |
| 9.1.14.2 | Fat solubility (solvent - oil to be specified) | - |
| 9.1.15 | Partition coefficient: n-octanol/water | - |
| 9.1.16 | Auto-ignition temperature | - |
| 9.1.17 | Decomposition temperature | - |
| 9.1.18 | Viscosity | - |
| 9.1.19 | Explosive properties | - |
| 9.1.20 | Oxidising properties | - |
| 9.2 | Other information | - |

10. STABILITY AND REACTIVITY

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|-------------|---|--|
| 10.1 | Reactivity | - |
| 10.2 | Chemical stability | - |
| 10.3 | Possibility of hazardous reactions | - |
| 10.4 | 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 | - |
| 10.6 | Hazardous decomposition products | - |

11. TOXICOLOGICAL INFORMATION

| | | |
|---------------|--|---|
| 11.1 | Information on toxicological effects | - |
| 11.1.1 | Acute toxicity | - |
| 11.1.2 | Irritation and corrosion | - |
| 11.1.3 | Sensitisation | - |
| 11.1.4 | Subacute, subchronic and prolonged toxicity | - |
| 11.1.5 | STOT-single exposure | - |
| 11.1.6 | STOT-repeated exposure | - |

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11.1.7 Aspiration hazard

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11.1.8 Other information on acute toxicity

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12. ECOLOGICAL INFORMATION**12.1 Toxicity****12.1.1 Aquatic toxicity**

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12.1.2 Toxicity to other organisms

-

12.2 Persistence and degradability**12.2.1 Biodegradation**

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12.2.2 Chemical degradation

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12.3 Bioaccumulative potential

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12.4 Mobility in soil

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12.5 Results of PBT and vPvB assessment**12.6 Other adverse effects**

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13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

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13.2 Waste from residues / unused products

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14. TRANSPORT INFORMATION**14.1 UN number** 1950**14.2 UN proper shipping name** Aerosol**14.3 Transport hazard class(es)** 2.1**14.4 Packing group** 2**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

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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
- 16.2 Key or legend to abbreviations and acronyms**
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- 16.3 Key literature references and sources for data**
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- 16.4 Classification procedure**
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- 16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**
R12 Extremely flammable.
- 16.6 Training advice**
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- 16.8 Additional information available from:**
www.taerosol.com