

**PRF Butangas**

Date 14.8.2015

Previous date: 14.8.2015

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

PRF Butangas

**1.1.2 Product code**

PIBUTA40

**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**

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)**

Flam. Aerosol 1, H222

Flam. Aerosol 1, H229

**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.

H229 Pressurised container: May burst if heated.

**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****3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures**

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<b>Hazardous components CAS/EC and Reg. number</b>	<b>Chemical name of the substance</b>	<b>Concentration</b>	<b>Classification</b>
74-98-6 200-827-9	propan	40-55%	F+; R12 ;Flam. Gas 1, H220; Press. Gas 200-827-9
106-97-8 200-857-2	Butaani	40-55%	F+; R12 ;Flam. Gas 1, H220; Press. Gas

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

Foam

**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.

**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)**

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- 8.1 Control parameters**
- 8.1.1 Threshold limits**
- |          |         |                              |                                 |
|----------|---------|------------------------------|---------------------------------|
| 74-98-6  | propan  | 800 ppm (8 h)                | 1100 ppm (15 min)               |
|          |         | 1500 mg/m <sup>3</sup> (8 h) | 2000 mg/m <sup>3</sup> (15 min) |
| 106-97-8 | Butaani | 800 ppm (8 h)                | 1000 ppm (15 min)               |
|          |         | 1900 mg/m <sup>3</sup> (8 h) | 2400 mg/m <sup>3</sup> (15 min) |
- 8.1.4 DNELs**  
not determined
- 8.1.5 PNECs**  
not determined
- 8.2 Exposure controls**
- 8.2.2 Individual protection measures**
- 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.

**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**  
-26°C
- 9.1.7 Flash point**  
not determined
- 9.1.8 Evaporation rate**  
not determined
- 9.1.9 Flammability (solid, gas)**  
Flammable gas, may cause flash fire.
- 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 density**  
not determined

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<b>9.1.14</b>	<b>Solubility(ies)</b>	
<b>9.1.14.1</b>	<b>Water solubility</b>	not determined
<b>9.1.14.2</b>	<b>Fat solubility (solvent - oil to be specified)</b>	not determined
<b>9.1.15</b>	<b>Partition coefficient: n-octanol/water</b>	not determined
<b>9.1.16</b>	<b>Auto-ignition temperature</b>	not determined
<b>9.1.17</b>	<b>Decomposition temperature</b>	not determined
<b>9.1.18</b>	<b>Viscosity</b>	not determined
<b>9.1.19</b>	<b>Explosive properties</b>	not determined
<b>9.1.20</b>	<b>Oxidising properties</b>	not determined
<b>9.2</b>	<b>Other information</b>	

**10. STABILITY AND REACTIVITY**

<b>10.1</b>	<b>Reactivity</b>	
<b>10.2</b>	<b>Chemical stability</b>	
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	
<b>10.4</b>	<b>Conditions to avoid</b>	Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep away from children.
<b>10.5</b>	<b>Incompatible materials</b>	
<b>10.6</b>	<b>Hazardous decomposition products</b>	

**11. TOXICOLOGICAL INFORMATION**

<b>11.1</b>	<b>Information on toxicological effects</b>	
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**12. ECOLOGICAL INFORMATION**

<b>12.1</b>	<b>Toxicity</b>	
<b>12.2</b>	<b>Persistence and degradability</b>	
<b>12.3</b>	<b>Bioaccumulative potential</b>	
<b>12.4</b>	<b>Mobility in soil</b>	
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>	
<b>12.6</b>	<b>Other adverse effects</b>	

**13. DISPOSAL CONSIDERATIONS**

<b>13.1</b>	<b>Waste treatment methods</b>	
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**14. TRANSPORT INFORMATION**

<b>14.1</b>	<b>UN number</b>	1950
<b>14.2</b>	<b>UN proper shipping name</b>	Aerosol
<b>14.3</b>	<b>Transport hazard class(es)</b>	2.1
<b>14.4</b>	<b>Packing group</b>	2
<b>14.5</b>	<b>Environmental hazards</b>	not determined
<b>14.6</b>	<b>Special precautions for users</b>	

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**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code****15. REGULATORY INFORMATION**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**15.2 Chemical safety assessment**

**16. OTHER INFORMATION**

- 16.1 Additions, Deletions, Revisions**  
REGULATION (EC) No 453/2010
- 16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**  
R12 Extremely flammable.
- 16.8 Additional information available from:**  
tilaukset(at)taerosol.com