

**PRF Booster**

Date 10.9.2013

Previous date: 10.9.2013

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

PRF Booster

**1.1.2 Product code**

Cleaning agent

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

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

**67/548/EEC - 1999/45/EC**

F+

Extremely flammable

**R-phrases(s)**

R12

Extremely flammable.

**S-phrases(s)**

S2

Keep out of the reach of children.

S16

Keep away from sources of ignition - No smoking.

S21

When using do not smoke.

**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	5-10%	F+; R12 ;Flam. Gas 1, H220; Press. Gas 200-827-9
106-97-8	butan	5-10%	F+; R12 ;Flam. Gas 1, H220; Press. Gas 200-857-2
67-63-0	propan-2-ol	1-5%	F; R11; Xi; R36; R67 ;Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336
111-76-2	2-butoxyethanol	1-5%	200-661-7 Xn; R20/21/22; Xi; R36/38 ;Acute Tox. 4 (), H332; Acute Tox. 4 (), H312; Acute Tox. 4 (), H302; Eye Irrit. 2, H319; Skin Irrit. 2, H315
6381-92-6	EDTA	0,3-0,5%	203-905-0 Xn, R22

**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**

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**4.1.4 Eye contact**

Flush eyes with water as a precaution.

**4.1.5 Ingestion**

Harmful if swallowed.

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

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**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**
- |          |        |                              |                                 |
|----------|--------|------------------------------|---------------------------------|
| 74-98-6  | propan | 1000 ppm (8 h)               | 1100 ppm (15 min)               |
|          |        | 4240 mg/m <sup>3</sup> (8 h) | 2000 mg/m <sup>3</sup> (15 min) |
| 106-97-8 | butan  |                              |                                 |
- 8.1.2 Other information on limit values**  
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- 8.1.3 Limit values in other countries**  
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- 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

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<b>9.1.2</b>	<b>Odour</b>	odourless
<b>9.1.3</b>	<b>Odour threshold</b>	-
<b>9.1.4</b>	<b>pH</b>	-
<b>9.1.5</b>	<b>Melting point/freezing point</b>	-
<b>9.1.6</b>	<b>Initial boiling point and boiling range</b>	-26°C
<b>9.1.7</b>	<b>Flash point</b>	-
<b>9.1.8</b>	<b>Evaporation rate</b>	-
<b>9.1.9</b>	<b>Flammability (solid, gas)</b>	Flammable gas, may cause flash fire.
<b>9.1.10</b>	<b>Explosive properties</b>	-
<b>9.1.10.1</b>	<b>Lower explosion limit</b>	-
<b>9.1.10.2</b>	<b>Upper explosion limit</b>	-
<b>9.1.11</b>	<b>Vapour pressure</b>	-
<b>9.1.12</b>	<b>Vapour density</b>	-
<b>9.1.13</b>	<b>Relative density</b>	-
<b>9.1.14</b>	<b>Solubility(ies)</b>	-
<b>9.1.14.1</b>	<b>Water solubility</b>	-
<b>9.1.14.2</b>	<b>Fat solubility (solvent - oil to be specified)</b>	-
<b>9.1.15</b>	<b>Partition coefficient: n-octanol/water</b>	-
<b>9.1.16</b>	<b>Auto-ignition temperature</b>	-
<b>9.1.17</b>	<b>Decomposition temperature</b>	-
<b>9.1.18</b>	<b>Viscosity</b>	-
<b>9.1.19</b>	<b>Explosive properties</b>	-
<b>9.1.20</b>	<b>Oxidising properties</b>	-
<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>	-
<b>11.1.1</b>	<b>Acute toxicity</b>	-

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- 11.1.2 Irritation and corrosion  
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- 11.1.3 Sensitisation  
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- 11.1.4 Subacute, subchronic and prolonged toxicity  
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- 11.1.5 STOT-single exposure  
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- 11.1.6 STOT-repeated exposure  
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- 11.1.7 Aspiration hazard  
-
- 11.1.8 Other information on acute toxicity  
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**12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity
  - 12.1.1 Aquatic toxicity  
-
  - 12.1.2 Toxicity to other organisms  
-
- 12.2 Persistence and degradability
  - 12.2.1 Biodegradation  
-
  - 12.2.2 Chemical degradation  
-
- 12.3 Bioaccumulative potential  
-
- 12.4 Mobility in soil  
-
- 12.5 Results of PBT and vPvB assessment
- 12.6 Other adverse effects  
-

**13. DISPOSAL CONSIDERATIONS**

- 13.1 Waste treatment methods  
-
- 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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