

**PRF BioSol**

Date 8.11.2013

Previous date: 23.10.2013

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING**

- 1.1 Product identifier**  
**1.1.1 Commercial Product Name**  
 PRF BioSol
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
**1.2.1 Recommended use**  
 Cleaning agent
- 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**

**2. HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture**  
**1272/2008 (CLP)**  
 Acute Tox. 3, H302  
 Skin Irrit. 2, H315  
 Eye Irrit. 2, H319  
 STOT SE 3, H335  
**67/548/EEC - 1999/45/EC**  
 R22-36-37-38
- 2.2 Label elements**  
**1272/2008 (CLP)**  
 GHS07
- |                                 |   |
|---------------------------------|---|
| Signal word                     | <b>Warning</b>  |
| <b>Hazard Statements</b>        |   |
| H302                            | Harmful if swallowed.   |
| H315                            | Causes skin irritation.   |
| H319                            | Causes serious eye irritation.  |
| H335                            | May cause respiratory irritation.                                     |
| <b>Precautionary Statements</b> |   |
| P101                            | If medical advice is needed, have product container or label at hand. |
| P102                            | Keep out of reach of children.  |
| P301+P330+P331                  | IF SWALLOWED: rinse mouth. Do NOT induce vomiting.                    |
- 2.3 Other hazards**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

- 3.2 Mixtures**  
**Hazardous components**
- | CAS/EC and Reg. number | Chemical name of the substance | Concentration | Classification                                       |
|------------------------|--------------------------------|---------------|--|
| 68439-46-3             | C9-11 Alkoholietoksilaatti     | <5%           | Xi; R 38; 41<br>Skin Irrit 2 H315<br>Eye Dam 1 H 318 |

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112-34-5	2-(2-butoxyethoxy)ethanol	1-5%	Xi; R36; Eye Irrit. 2, H319 203-961-6
64-02-8	tetrasodium ethylene diamine tetraacetate	1-2%	Xn; R22; Xi; R41; Acute Tox. 4 *, H302; Eye Dam. 1, H318 200-573-9
10213-79-3	Natriummetasilikaatti- pentahydraatti	1-2%	C; R34; Xi; R37 Skin Corr. 1B, H314; STOT SE 3, H335

**4. FIRST AID MEASURES****4.1 Description of first aid measures****4.1.2 Inhalation**

If inhaled, remove to fresh air.

**4.1.3 Skin contact**

In case of contact, immediately flush skin with plenty of water.

**4.1.4 Eye contact**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

**4.1.5 Ingestion**

DO NOT induce vomiting unless directed to do so by a physician or poison control centre.

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

May cause headache and dizziness.

**4.3 Indication of immediate medical attention and special treatment needed**

No information available.

**5. FIREFIGHTING MEASURES**

Will not burn

**5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

No information available.

**5.1.2 Extinguishing media which must not be used for safety reasons**

No information available.

**5.2 Special hazards arising from the substance or mixture**

No information available.

**5.3 Advice for firefighters**

No information available.

**5.4 Specific methods**

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**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Do not flush into surface water or sanitary sewer system.

**6.2 Environmental precautions**

No information available.

**6.3 Methods and materials for containment and cleaning up**

After cleaning, flush away traces with water.

**6.4 Reference to other sections**

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**7. HANDLING AND STORAGE**

- 7.1 Precautions for safe handling**  
Wear personal protective equipment.
- 7.2 Conditions for safe storage, including any incompatibilities**  
No information available.
- 7.3 Specific end use(s)**  
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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- 8.1 Control parameters**  
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- 8.1.2 Other information on limit values**  
No information available.
- 8.1.3 Limit values in other countries**  
No information available.
- 8.1.4 DNELs**  
No information available.
- 8.1.5 PNECs**  
No information available.
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls**  
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- 8.2.2 Individual protection measures**
- 8.2.2.1 Respiratory protection**  
It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible.
- 8.2.2.2 Hand protection**  
It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible.
- 8.2.2.3 Eye/face protection**  
It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible.
- 8.2.2.4 Skin protection**  
It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible.
- 8.2.3 Environmental exposure controls**  
No information available.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- 9.1 Important Health Safety and Environmental Information**
- 9.1.1 Appearance**  
Liquid
- 9.1.2 Odour** Citrus
- 9.1.3 Odour threshold** No information available.
- 9.1.4 pH** 12
- 9.1.5 Melting point/freezing point** No information available.
- 9.1.6 Initial boiling point and boiling range** No information available.
- 9.1.7 Flash point** Tietoa ei ole käytettävissä.

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<b>9.1.8</b>	<b>Evaporation rate</b>	No information available.-
<b>9.1.9</b>	<b>Flammability (solid, gas)</b>	No information available.
<b>9.1.10</b>	<b>Explosive properties</b>	
<b>9.1.10.1</b>	<b>Lower explosion limit</b>	No information available.
<b>9.1.10.2</b>	<b>Upper explosion limit</b>	No information available.
<b>9.1.11</b>	<b>Vapour pressure</b>	No information available.
<b>9.1.12</b>	<b>Vapour density</b>	Tietoa ei ole käytettävissä.
<b>9.1.13</b>	<b>Relative density</b>	No information available.-
<b>9.1.14</b>	<b>Solubility(ies)</b>	
<b>9.1.14.1</b>	<b>Water solubility</b>	soluble
<b>9.1.14.2</b>	<b>Fat solubility (solvent - oil to be specified)</b>	No information available.
<b>9.1.15</b>	<b>Partition coefficient: n-octanol/water</b>	No information available.
<b>9.1.16</b>	<b>Auto-ignition temperature</b>	No information available.
<b>9.1.17</b>	<b>Decomposition temperature</b>	No information available.
<b>9.1.18</b>	<b>Viscosity</b>	No information available.
<b>9.1.19</b>	<b>Explosive properties</b>	No information available.
<b>9.1.20</b>	<b>Oxidising properties</b>	No information available.
<b>9.2</b>	<b>Other information</b>	

**10. STABILITY AND REACTIVITY**

<b>10.1</b>	<b>Reactivity</b> No information available.
<b>10.2</b>	<b>Chemical stability</b> No information available.
<b>10.3</b>	<b>Possibility of hazardous reactions</b> No information available.
<b>10.4</b>	<b>Conditions to avoid</b> No information available.
<b>10.5</b>	<b>Incompatible materials</b> No information available.
<b>10.6</b>	<b>Hazardous decomposition products</b> No information available.

**11. TOXICOLOGICAL INFORMATION**

<b>11.1</b>	<b>Information on toxicological effects</b> No information available.
<b>11.1.1</b>	<b>Acute toxicity</b> No information available.
<b>11.1.2</b>	<b>Irritation and corrosion</b> Vapours may be irritating to eyes, nose, throat, and lungs.
<b>11.1.3</b>	<b>Sensitisation</b> No information available.
<b>11.1.4</b>	<b>Subacute, subchronic and prolonged toxicity</b> No information available.
<b>11.1.5</b>	<b>STOT-single exposure</b> Toxic if swallowed.

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- 11.1.6 STOT-repeated exposure**  
Toxic by ingestion
- 11.1.7 Aspiration hazard**  
No information available.
- 11.1.8 Other information on acute toxicity**  
No information available.

**12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**  
Pinta-aktiivinen aine täyttää pesuaineista annetun (EY):n asetuksen N:o 648/2004 mukaiset biologisen hajoavuuden kriteerit.
- 12.1.2 Toxicity to other organisms**  
No information available.
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**  
Pinta-aktiivinen aine täyttää pesuaineista annetun (EY):n asetuksen N:o 648/2004 mukaiset biologisen hajoavuuden kriteerit.
- 12.2.2 Chemical degradation**  
No information available.
- 12.3 Bioaccumulative potential**  
No information available.
- 12.4 Mobility in soil**  
No information available.
- 12.5 Results of PBT and vPvB assessment**  
No information available.
- 12.6 Other adverse effects**  
No information available.

**13. DISPOSAL CONSIDERATIONS**

Dispose of contents/container in accordance with local regulation.

- 13.1 Waste treatment methods**  
No information available.
- 13.2 Waste from residues / unused products**  
No information available.

**14. TRANSPORT INFORMATION**

- 14.1 UN number** No information available.
- 14.2 UN proper shipping name** No information available.
- 14.3 Transport hazard class(es)** Tietoa ei ole käytettävissä.
- 14.4 Packing group** No information available.
- 14.5 Environmental hazards** No information available.
- 14.6 Special precautions for users**  
No information available.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

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**15. REGULATORY INFORMATION**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No information available.
- 15.2 Chemical safety assessment**  
No information available.

**16. OTHER INFORMATION**

- 16.1 Additions, Deletions, Revisions**  
Classification according to Regulation (EU) 1272/2008 with the correlation table 67/548/EEC or 1999/45/EC (Annex VII of CLP)
- 16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**
- |     |                                   |
|-----|-----------------------------------|
| R22 | Harmful if swallowed.             |
| R36 | Irritating to eyes.               |
| R37 | Irritating to respiratory system. |
| R38 | Irritating to skin.               |
- 16.8 Additional information available from:**  
[www.taerosol.com](http://www.taerosol.com)