

**PRF RST**

Date 24.9.2013

Previous date: 24.9.2013

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

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**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****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

STOT SE 3, H336

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

R12-67

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

GHS07 - GHS02

Signal word

**Danger****Hazard Statements**

H222

Extremely flammable aerosol.

H336

May cause drowsiness or dizziness.

**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.

P101

If medical advice is needed, have product container or label at hand.

**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
74-98-6	propan	5-15%	F+; R12 ;Flam. Gas 1, H220; Press. Gas 200-827-9
106-97-8	butan	5-15%	F+; R12 ;Flam. Gas 1, H220; Press. Gas 200-857-2
64-17-5	ethanol	30-40%	F; R11; Flam. Liq. 2, H225 200-578-6
107-98-2	1-methoxy-2-propanol	5-15%	R10; R67; Flam. Liq. 3, H226; STOT SE 3, H336 203-539-1

**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.

**4.1.2 Inhalation**

In the case of inhalation of aerosol/mist consult a physician if necessary.

**4.1.3 Skin contact**

Immediately flush skin with large amounts of water.

**4.1.4 Eye contact**

Flush eyes with water as a precaution.

**4.1.5 Ingestion**

If large quantities of this material are swallowed, call a physician immediately.

**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.

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- 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 | butan  | 800 ppm (8 h)                | 1000 ppm (15 min)               |
|          |        | 1900 mg/m <sup>3</sup> (8 h) | 2400 mg/m <sup>3</sup> (15 min) |
- 8.1.2 Other information on limit values**  
There is no data available for this product.
- 8.1.3 Limit values in other countries**  
No data is available on the product itself.
- 8.1.4 DNELs**  
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- 8.1.5 PNECs**  
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- 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**  
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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**

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<b>9.1.1</b>	<b>Appearance</b>	
	Aerosol	
<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>	Stable
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	No data is available on the product itself.
<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>	There is no data available for this product.

**11. TOXICOLOGICAL INFORMATION**

<b>11.1</b>	<b>Information on toxicological effects</b>	-
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- 11.1.1 Acute toxicity**  
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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**  
-
- 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**  
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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**  
No data is available on the product itself.
- 12.1.2 Toxicity to other organisms**  
No data is available on the product itself.
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**  
Biodegradable
- 12.2.2 Chemical degradation**  
-
- 12.3 Bioaccumulative potential**  
Expected to be biodegradable
- 12.4 Mobility in soil**  
The product evaporates from soil.
- 12.5 Results of PBT and vPvB assessment**  
There is no data available for this product.
- 12.6 Other adverse effects**  
No data is available on the product itself.

**13. DISPOSAL CONSIDERATIONS**

- 13.1 Waste treatment methods**  
In accordance with local and national regulations.
- 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

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- 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**  
-
- 15.2 Chemical safety assessment**  
-

**16. OTHER INFORMATION**

- 16.1 Additions, Deletions, Revisions**  
REGULATION (EC) No 453/2010
- 16.2 Key or legend to abbreviations and acronyms**  
-
- 16.3 Key literature references and sources for data**  
-
- 16.4 Classification procedure**  
-
- 16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**  
R10 Flammable.  
R11 Highly flammable.  
R12 Extremely flammable.  
R67 Vapours may cause drowsiness and dizziness.
- 16.6 Training advice**  
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- 16.8 Additional information available from:**  
[www.taerosol.com](http://www.taerosol.com)