

PRF Air Glass

Date 22.10.2013

Previous date: 22.10.2013

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

PRF Air Glass

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**Myrkytystietokeskus, Stenberginkatu 9, PL 100, 00210 Helsinki, 09-4711(vaihde),
09-471977 (suora)**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****1272/2008 (CLP)**

Flam. Aerosol 1, H222

STOT SE 3, H336

Eye Irrit. 2, H319

67/548/EEC - 1999/45/EC

F+; R12-36-67

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

GHS07 - GHS02

Signal word

Danger**Hazard Statements**

H222

Extremely flammable aerosol.

H336

May cause drowsiness or dizziness.

H319

Causes serious eye irritation.

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.

P262

Do not get in eyes, on skin, or on clothing.

P410+P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

P102

Keep out of reach of children.

2.3 Other hazards**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components**

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CAS/EC and Reg. number	Chemical name of the substance	Concentration	Classification
106-97-8	butan	10-20%%	F+; R12 ;Flam. Gas 1, H220; Press. Gas 200-857-2
74-98-6	propan	10-20%	F+; R12 ;Flam. Gas 1, H220; Press. Gas 200-827-9
67-63-0	propan-2-ol	10-20%	F; R11; Xi; R36; R67 ;Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 200-661-7
151-21-3	Natriumlaurylsulfate	0,3-0,5%	Flam. Sol. 2, H228 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 R 20/22-37/38-41

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

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

4.1.3 Skin contact

Get medical attention if symptoms occur. Wash off 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

If swallowed, call a poison control centre or doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

When symptoms persist or in all cases of doubt seek medical advice. If eye irritation persists, consult a specialist.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

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

Alcohol-resistant 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

Explosive reaction may occur on heating or burning.

5.3 Advice for firefighters

Alcohol-resistant foam

5.4 Specific methods

Immediately evacuate personnel to safe areas.

6. ACCIDENTAL RELEASE MEASURES

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6.1 Personal precautions, protective equipment and emergency procedures

Prevent unauthorised persons entering the zone. Prevent unauthorised persons entering the zone. Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

6.2 Environmental precautions

Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

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6.4 Reference to other sections

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7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Do not use in areas without adequate ventilation. No sparking tools should be used. Do not taste or swallow. Do not spray on a naked flame or any incandescent material. Do not smoke. Do not empty into drains. Do not store near combustible materials. Take precautionary measures against static discharges. Prevent vapour buildup by providing adequate ventilation during and after use.

7.2 Conditions for safe storage, including any incompatibilities

Do not store near combustible materials. Storage of flammable liquids

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

106-97-8	butan	800 ppm (8 h)	1000 ppm (15 min)
		1900 mg/m ³ (8 h)	2350 mg/m ³ (15 min)
74-98-6	propan	800 ppm (8 h)	1100 ppm (15 min)
		1500 mg/m ³ (8 h)	2000 mg/m ³ (15 min)
67-63-0	Propan-2-oli; isopropyylialkoholi; isopropanoli	200 ppm (8 h)	250 ppm (15 min)
		500 mg/m ³ (8 h)	620 mg/m ³ (15 min)

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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8.1.5 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**

Provide adequate ventilation. Do not inhale aerosol. Even in case of a full release, due to the small amount of substances present, it is not expected that exposure limits will be reached.

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.

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- 8.2.2.3 Eye/face protection**
Avoid contact with the skin and the eyes.
- 8.2.2.4 Skin protection**
Avoid contact with the skin and the eyes.
- 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** alcohol-like
- 9.1.3 Odour threshold** -
- 9.1.4 pH** 7
- 9.1.5 Melting point/freezing point** -10°C
- 9.1.6 Initial boiling point and boiling range** <-20 °C
- 9.1.7 Flash point** < 0 °C
- 9.1.8 Evaporation rate** -
- 9.1.9 Flammability (solid, gas)** Extremely flammable.
- 9.1.10 Explosive properties**
- 9.1.10.1 Lower explosion limit** 2,3 til-%
- 9.1.10.2 Upper explosion limit** 9,5 til-%
- 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** completely miscible
- 9.1.14.2 Fat solubility (solvent - oil to be specified)** practically insoluble
- 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**
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10. STABILITY AND REACTIVITY

- 10.1 Reactivity**
Exposure to sunlight.
- 10.2 Chemical stability**
Stable
- 10.3 Possibility of hazardous reactions**
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- 10.4 Conditions to avoid**
Do not expose to temperatures above 50 °C.

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10.5 Incompatible materials

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10.6 Hazardous decomposition products

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11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****11.1.1 Acute toxicity**

LD50/oral/rat =16750 OECD Test Guideline 401

LC50/inhalation/ 4 h/rat =259000mg/m³OECD Test Guideline 403

LD50/dermal/rabbit =3350mg/kgOECD Test Guideline 402

11.1.2 Irritation and corrosion

Solvents may degrease the skin. Prolonged skin contact may cause skin irritation.

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

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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

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12.2 Persistence and degradability**12.2.1 Biodegradation**

Bioaccumulation is unlikely.

12.2.2 Chemical degradation

Readily biodegradable, according to appropriate OECD test.

12.3 Bioaccumulative potential

Bioaccumulation is unlikely.

12.4 Mobility in soil

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12.5 Results of PBT and vPvB assessment

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12.6 Other adverse effects

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

Do not burn, or use a cutting torch on, the empty drum. Dispose of in accordance with local regulations.

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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	Aerosols
14.3	Transport hazard class(es)	2.1
14.4	Packing group	2
14.5	Environmental hazards	-
14.6	Special precautions for users	-
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
	2B - Aerosols
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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16.5	List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements
	R12 Extremely flammable.
	R36 Irritating to eyes.
	R67 Vapours may cause drowsiness and dizziness.
16.6	Training advice
	-
16.7	Recommended restrictions
	-
16.8	Additional information available from:
	www.taerosol.com