

**PRF Smoke Alarm tester**

Date 4.12.2015

Previous date: 17.6.2015

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

PRF Smoke Alarm tester

**1.1.2 Product code**

PISMOKE22

**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Recommended use**

Test 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.

P262 Do not get in eyes, on skin, or on clothing.

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

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**Hazardous components**

<b>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	45-55%	F+; R12 ;Flam. Gas 1, H220; Press. Gas
106-97-8 200-857-2	Butaani	45-55%	F+; R12 ;Flam. Gas 1, H220; Press. Gas 200-857-2
67-63-0 200-661-7	Propan-2-oli; isopropyylialkoholi;isopropanoli	1-3%	F; R11; Xi; R36; R67 ;Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336
64742-49-0 265-151-9	Naphtha (petroleum), hydrotreated light	1-3%	CLP:Flam.Liq. 2; H225 R 12 Skin.Irrit. 2; H315 R 38 STOT SE 3; H336 R 67 Asp.tox 1; H304 R 65 Aquatic Chronic 2; H411 R 51/53

**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**

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. Aspiration hazard if swallowed - can enter lungs and cause damage.

**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**

ABC powder

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

Do NOT use water jet.

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**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)**

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**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)

**8.1.2 Other information on limit values**

einot determined

**8.1.3 Limit values in other countries**

not determined

**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.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>9.1</b>	<b>Important Health Safety and Environmental Information</b>	
<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>	not determined
<b>9.1.4</b>	<b>pH</b>	not determined
<b>9.1.5</b>	<b>Melting point/freezing point</b>	not determined
<b>9.1.6</b>	<b>Initial boiling point and boiling range</b>	-26°C
<b>9.1.7</b>	<b>Flash point</b>	not determined
<b>9.1.8</b>	<b>Evaporation rate</b>	not determined
<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>	not determined
<b>9.1.10.2</b>	<b>Upper explosion limit</b>	not determined
<b>9.1.11</b>	<b>Vapour pressure</b>	not determined
<b>9.1.12</b>	<b>Vapour density</b>	not determined
<b>9.1.13</b>	<b>Relative density</b>	not determined
<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>
<b>11.1.1</b>	<b>Acute toxicity</b>
	Aspiration hazard if swallowed - can enter lungs and cause damage.

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- 11.1.5 STOT-single exposure**  
Aspiration hazard if swallowed - can enter lungs and cause damage.
- 11.1.7 Aspiration hazard**  
Aspiration hazard if swallowed - can enter lungs and cause damage.

**12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**  
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- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**  
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- 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**

**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**
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

**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
- 16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**  
R12 Extremely flammable.
- 16.6 Training advice**  
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- 16.8 Additional information available from:**  
tilaukset(at)taerosol.com