

PRF 4-44 FL

Date 3.10.2017

Previous date: 2.10.2017

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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1.1.2 Product code

PE4452, PE4422

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

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

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.

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

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3.1 Substances

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CAS/EC and Reg. number	Chemical name of the substance	Concentration	Classification
74-98-6	propan	40-55%	F+; R12
200-827-9			;Flam. Gas 1, H220; Press. Gas
106-97-8	butan	40-55%	F+; R12
200-857-2			;Flam. Gas 1, H220; Press. Gas

3.3 Other information

aerosoli

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

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.

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

not determined -

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

not determined

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.

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6.3 Methods and materials for containment and cleaning up

Not relevant for the product itself.

6.4 Reference to other sections

not determined

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)

not determined

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

not determined

8.1.1 Threshold limits

74-98-6	propan	1000 ppm (8 h)	1100 ppm (15 min)
		1500 mg/m ³ (8 h)	2000 mg/m ³ (15 min)
106-97-8	butan	900 ppm (8 h)	1000 ppm (15 min)
		1200 mg/m ³ (8 h)	1500 mg/m ³ (15 min)

8.1.2 Other information on limit values

not 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**8.2.1 Appropriate engineering controls**

not determined

8.2.2 Individual protection measures**8.2.2.1 Respiratory protection**

not determined

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

not determined

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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

odourless

9.1.3 Odour threshold

not determined

9.1.4 pH

not determined

9.1.5 Melting point/freezing point

not determined

9.1.6 Initial boiling point and boiling range

-26°C

9.1.7 Flash point

not determined

9.1.8 Evaporation rate

not determined

9.1.9 Flammability (solid, gas)

Flammable gas, may cause flash fire.

9.1.10 Explosive properties**9.1.10.1 Lower explosion limit**

not determined

9.1.10.2 Upper explosion limit

not determined

9.1.11 Vapour pressure

not determined

9.1.12 Vapour density

not determined

9.1.13 Relative density

not determined

9.1.14 Solubility(ies)**9.1.14.1 Water solubility**

not determined

9.1.14.2 Fat solubility (solvent - oil to be specified)

not determined

9.1.15 Partition coefficient: n-octanol/water

not determined

9.1.16 Auto-ignition temperature

not determined

9.1.17 Decomposition temperature

not determined

9.1.18 Viscosity

not determined

9.1.19 Explosive properties

not determined

9.1.20 Oxidising properties

not determined

9.2 Other information

not determined

10. STABILITY AND REACTIVITY**10.1 Reactivity**

not determined

10.2 Chemical stability

not determined

10.3 Possibility of hazardous reactions

not determined

10.4 Conditions to avoid

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
Keep away from children.

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

not determined

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11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
not determined
- 11.1.1 Acute toxicity**
not determined
- 11.1.2 Irritation and corrosion**
not determined
- 11.1.3 Sensitisation**
not determined

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**
not determined
- 12.1.2 Toxicity to other organisms**
not determined
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**
not determined
- 12.2.2 Chemical degradation**
not determined
- 12.3 Bioaccumulative potential**
not determined
- 12.4 Mobility in soil**
not determined
- 12.5 Results of PBT and vPvB assessment**
not determined
- 12.6 Other adverse effects**
not determined

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
not determined
- 13.2 Waste from residues / unused products**
not determined

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 | - |
| 14.5 Environmental hazards | - |

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14.6 Special precautions for users

not determined

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

not determined

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

not determined

15.2 Chemical safety assessment

not determined

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.

16.8 Additional information available from:

tilaukset(at)taerosol.com