

PRF IPA

Date 14.8.2015

Previous date: 14.8.2015

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

PRF IPA

1.1.2 Product code

PEIPA22

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

Eye Irrit. 2, H319

STOT SE 3, H336

67/548/EEC - 1999/45/EC

Xi, F+; R12-67-11-36

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

GHS07 - GHS02

Signal word

Danger**Hazard Statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary Statements

P102 Keep out of reach of children.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurised container: Do not pierce or burn, even after use.

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.

2.3 Other hazards

PRF IPA

Date 14.8.2015

Previous date: 14.8.2015

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

| CAS/EC and Reg. number | Chemical name of the substance | Concentration | Classification |
|-------------------------------|---------------------------------------|----------------------|--|
| 67-63-0 200-661-7 | propan-2-ol | 40-60% | F; R11; Xi; R36; R67 ;Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 |
| 106-97-8 200-857-2 | butan | 20-30% | F+; R12 ;Flam. Gas 1, H220; Press. Gas |
| 74-98-6 200-827-9 | propan | 20-30% | F+; R12 ;Flam. Gas 1, H220; Press. Gas |

3.3 Other information

not determined

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

In the case of inhalation of aerosol/mist consult a physician if necessary. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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.

4.1.4 Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 5 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

not determined

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**

Alcohol-resistant foam Dry chemical Carbon dioxide (CO₂)

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

PRF IPA

Date 14.8.2015

Previous date: 14.8.2015

- 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**
not determined
- 6.4 Reference to other sections**
not determined

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)**
not determined

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
not determined
- 8.1.1 Threshold limits**
- | | | | |
|----------|---|--------------------------------|---------------------------------|
| 106-97-8 | Butaani | 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 | 250 ppm (15 min) | 500 mg/m ³ (8 h) |
| | | 620 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**
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.

PRF IPA

Date 14.8.2015

Previous date: 14.8.2015

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

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

not determined

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

not determined

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

not determined

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

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**

soluble

9.1.14.2 Fat solubility (solvent - oil to be specified)

Soluble in hydrocarbons

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**

Exposure to sunlight.

10.2 Chemical stability

Stable

PRF IPA

Date 14.8.2015

Previous date: 14.8.2015

- 10.3 Possibility of hazardous reactions**
not determined
- 10.4 Conditions to avoid**
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.
- 10.5 Incompatible materials**
not determined
- 10.6 Hazardous decomposition products**
not determined

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
- 11.1.1 Acute toxicity**
LD50/oral/rat =>2000mg/kg
LC50/inhalation/ 8 h/rat => 20 mg/l
LD50/dermal/rabbit =>2000 mg/kg
- 11.1.2 Irritation and corrosion**
Solvents may decrease the skin. Prolonged skin contact may cause skin irritation. Irritating to eyes.
- 11.1.3 Sensitisation**
not determined
- 11.1.4 Subacute, subchronic and prolonged toxicity**
not determined
- 11.1.5 STOT-single exposure**
Severe eye irritation

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

PRF IPA

Date 14.8.2015

Previous date: 14.8.2015

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 | not determined |
| 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 | 2B - Aerosols |
| 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. R36 Irritating to eyes. R67 Vapours may cause drowsiness and dizziness. |
| 16.6 | Training advice | not determined |
| 16.8 | Additional information available from: | tilaukset@taerosol.com |