

**PRF Label off**

Date 7.2.2014

Previous date: 3.9.2013

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

PRF Label off

**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

Skin Irrit. 2, H315

Skin Irrit. 2, H317

STOT SE 3, H336

Aquatic Chronic 2, H410

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

F+, Xi, N; R12-38-43-51/53-67

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

GHS09 - GHS07 - GHS02

Signal word **Danger****Hazard Statements**

H222 Extremely flammable aerosol.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

**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 Pressurized 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****3. COMPOSITION/INFORMATION ON INGREDIENTS**

**PRF Label off**

Date 7.2.2014

Previous date: 3.9.2013

<b>3.2 Mixtures</b>			
<b>Hazardous components</b>			
<b>CAS/EC and Reg. number</b>	<b>Chemical name of the substance</b>	<b>Concentration</b>	<b>Classification</b>
64742-49-0	Naphtha (petroleum),hydrotreatedlight	30-40%	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 ;
106-97-8	butan	10-20%	265-151-9 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
94266-47-4	D-limonene	30-40%	Flam.Lig 2; H226,H315,317,H410 R12,R38,R43

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

Do not induce vomiting; contains petroleum distillates and/or aromatic solvents.

**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**

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**

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

**4.3 Indication of immediate medical attention and special treatment needed**

Aspiration hazard

**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

**PRF Label off**

Date 7.2.2014

Previous date: 3.9.2013

- 5.4 Specific methods**  
Immediately evacuate personnel to safe areas.

**6. ACCIDENTAL RELEASE MEASURES**

- 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**  
-
- 6.4 Reference to other sections**  
-

**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)**  
-

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- 8.1 Control parameters**  
-
- 8.1.1 Threshold limits**
- |            |  |                              |                                 |
|------------|--|------------------------------|---------------------------------|
| 106-97-8   | Butaani                                  | 800 ppm (8 h)                | 1000 ppm (15 min)               |
|            |  | 1900 mg/m <sup>3</sup> (8 h) | 2350 mg/m <sup>3</sup> (15 min) |
| 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) |
| 64742-49-0 | Naphtha(petroleum),<br>hydrotreatedlight | 500 ppm (8 h)                | 630 ppm (15 min)                |
|            |  | 1800 mg/m <sup>3</sup> (8 h) | 2300 mg/m <sup>3</sup> (15 min) |
- 8.1.2 Other information on limit values**  
-
- 8.1.3 Limit values in other countries**  
-
- 8.1.4 DNELs**  
-
- 8.1.5 PNECs**  
-
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls**  
-
- 8.2.2 Individual protection measures**
- 8.2.2.1 Respiratory protection**

**PRF Label off**

Date 7.2.2014

Previous date: 3.9.2013

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.

**8.2.2.3 Eye/face protection**

Avoid contact with the skin and the eyes.

**8.2.2.4 Skin protection**

Wear suitable gloves and eye/face protection. Avoid contact with the skin and the eyes.

**8.2.3 Environmental exposure controls**

-

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Important Health Safety and Environmental Information****9.1.1 Appearance**

aerosol

**9.1.2 Odour**

Citrus

**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**

&lt; -20 °C

**9.1.7 Flash point**

&lt; 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**

insoluble

**9.1.14.2 Fat solubility (solvent - oil to be specified)**

Soluble in hydrocarbons

**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**

-

**10. STABILITY AND REACTIVITY****10.1 Reactivity**

Exposure to sunlight.

**10.2 Chemical stability**

Stable

**PRF Label off**

Date 7.2.2014

Previous date: 3.9.2013

**10.3 Possibility of hazardous reactions**

-

**10.4 Conditions to avoid**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

**10.5 Incompatible materials**

-

**10.6 Hazardous decomposition products**

-

**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/m<sup>3</sup>OECD 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**

-

**11.1.4 Subacute, subchronic and prolonged toxicity**

-

**11.1.5 STOT-single exposure**

Aspiration hazard

**11.1.7 Aspiration hazard**

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

**11.1.8 Other information on acute toxicity**

-

**12. ECOLOGICAL INFORMATION****12.1 Toxicity****12.1.1 Aquatic toxicity**

LC50/96h/rainbow trout =10<LC/EC

LC50/96h/algae =10mg/l

LC50/96h/Sheephead minnows =May cause long-term adverse effects in the aquatic environment.

**12.1.2 Toxicity to other organisms**

May cause long-term adverse effects in the aquatic environment. Very toxic to fish. Very toxic to algae.

**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**

-

**12.5 Results of PBT and vPvB assessment**

-

**12.6 Other adverse effects**

-

**PRF Label off**

Date 7.2.2014

Previous date: 3.9.2013

**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.

**13.2 Waste from residues / unused products**

-

**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**

-

**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**

-

**16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**

R12 Extremely flammable.

R38 Irritating to skin.

R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

**16.6 Training advice**

-

**16.7 Recommended restrictions**

-

**16.8 Additional information available from:**[www.taerosol.com](http://www.taerosol.com)