

**PRF Tefsol**

Date 3.10.2017

Previous date: 3.10.2017

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

PRF Tefsol

**1.1.2 Product code**

PITEFS52

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

Dry lubricant

**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**

Aerosol 1

**1272/2008 (CLP)**

Aerosol 1, H222

Aerosol 1, H229

Skin Irrit. 2, H315

Aquatic Chronic 2, H411

STOT SE 3, H336

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

GHS09 - GHS07 - GHS02

Signal word

**Danger****Hazard Statements**

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H315

Causes skin irritation.

H411

Toxic to aquatic life with long lasting effects.

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

Do not pierce or burn, even after use.



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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**  
 not determined

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

CAS/EC and Reg. number	Chemical name of the substance	Concentration	Classification
64742-49-0 265-151-9	Naphtha (petroleum),hydrotreatedlight	40-60%	CLP:Flam.Liq. 2; H225 Skin.Irrit. 2; H315 STOT SE 3; H336 Asp.tox 1; H304 Aquatic Chronic 2; H411
106-97-8 200-857-2	butan	20-30%	Flam. Gas 1, H220; Press. Gas
74-98-6 200-827-9	propan	20-30%	Flam. Gas 1, H220; Press. Gas

**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**

Immediately flush eye(s) with plenty of water.

**4.1.5 Ingestion**

Aspiration hazard 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.

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**5.3 Advice for firefighters**

Alcohol-resistant foam

**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**

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****8.1.1 Threshold limits**

64742-49-0	Naphtha(petroleum), hydrotreatedlight	500 ppm (8 h) 1800 mg/m <sup>3</sup> (8 h)	630 ppm (15 min) 2300 mg/m <sup>3</sup> (15 min)
106-97-8	butan	800 ppm (8 h) 1900 mg/m <sup>3</sup> (8 h)	1000 ppm (15 min) 2350 mg/m <sup>3</sup> (15 min)
74-98-6	propan	800 ppm (8 h) 1500 mg/m <sup>3</sup> (8 h)	1100 ppm (15 min) 2000 mg/m <sup>3</sup> (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

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- 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.
- 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** hydrocarbon-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** 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** insoluble
- 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**

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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**  
not determined
- 10.4 Conditions to avoid**  
Do not expose to temperatures above 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 =>5840 mg/kg OECD Test Guideline 401  
LC50/inhalation/ 4 h/rat =>23.3 mg/LOECD Test Guideline 403
- 11.1.2 Irritation and corrosion**  
Irritating to skin.
- 11.1.5 STOT-single exposure**  
Irritating to skin. Höyryt voivat aiheuttaa uneliaisuutta ja huimausta.
- 11.1.7 Aspiration hazard**  
Aspiration hazard if swallowed - can enter lungs and cause damage.
- 11.1.8 Other information on acute toxicity**  
not determined

**12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**  
LC50/96h/rainbow trout =10<LC/EC  
LC50/96h/algae =10mg/l  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 12.1.2 Toxicity to other organisms**  
There is no data available for this product.
- 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.

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- 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.
- 13.2 Waste from residues / unused products**  
not determined

**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** -
- 14.5 Environmental hazards** Environmentally hazardous
- 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
- 16.2 Key or legend to abbreviations and acronyms**  
not determined
- 16.3 Key literature references and sources for data**  
not determined
- 16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**
- |      |  |
|------|--|
| H220 | Extremely flammable gas.                         |
| H225 | Highly flammable liquid and vapour.              |
| H304 | May be fatal if swallowed and enters airways.    |
| H315 | Causes skin irritation.                          |
| H336 | May cause drowsiness or dizziness.               |
| H411 | Toxic to aquatic life with long lasting effects. |

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**16.8**      **Additional information available from:**  
tilaukset(at)taerosol.com