

PRF 7-78

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 7-78

1.1.2 Product code

PE77822

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

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****1272/2008 (CLP)**

Flam. Aerosol 1, H222

Flam. Aerosol 1, H229

Eye Irrit. 2, H319

EUH066

67/548/EEC - 1999/45/EC

F+, Xi; R12-36-67-66

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.

EUH066 Repeated exposure may cause skin dryness or cracking.

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 7-78

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
106-97-8 200-857-2	butan	10-20%	F+; R12 ;Flam. Gas 1, H220; Press. Gas
74-98-6 200-827-9	propan	10-20%	F+; R12 ;Flam. Gas 1, H220; Press. Gas
918-481-9	Hiilivedyt, C10-C13, n-alkaanit, isoalkaanit, syklistet, <2% aromaatteja	30-45%	CLP: Asp.tox 1, H304; EUH066 DSD-DPD: Xn; R65, R66
67-63-0 200-661-7	Propan-2-oli	15-30%	F; R11; Xi; R36; R67 ;Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336

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

Aspiration hazard if swallowed - can enter lungs and cause damage. 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**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 7-78

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**
- 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 | butan | 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) |
- 8.1.4 DNELs**
not determined
- 8.1.5 PNECs**
not determined
- 8.2 Exposure controls**
- 8.2.2 Individual protection measures**
- 8.2.2.1 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 eyes.
- 8.2.2.4 Skin protection**
Avoid contact with skin.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Important Health Safety and Environmental Information**
- 9.1.1 Appearance**
aerosol

PRF 7-78

Date 14.8.2015

Previous date: 14.8.2015

9.1.2	Odour	hydrocarbon-like
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	< -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	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	

10. STABILITY AND REACTIVITY

10.1	Reactivity Exposure to sunlight.
10.2	Chemical stability Stable
10.3	Possibility of hazardous reactions -
10.4	Conditions to avoid Do not expose to temperatures above 50 °C.
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 => 2000 mg/kg, IPA LD50/dermal/rabbit => 2000 mg/kg, IPA
11.1.2	Irritation and corrosion Solvents may degrease the skin. Prolonged skin contact may cause skin irritation.

PRF 7-78

Date 14.8.2015

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- 11.1.5 STOT-single exposure**
May irritate eyes.
- 11.1.6 STOT-repeated exposure**
Prolonged or repeated contact may dry skin and cause irritation.
- 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**
LC50/96h/rainbow trout = > 100 mg/l,IPA
LC50/96h/algae =>100 mg/l,IPA
- 12.1.2 Toxicity to other organisms**
Taking into consideration the properties of several components, the product is estimated to be biodegradable according to OECD classification.
- 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**

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.

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**

PRF 7-78

Date 14.8.2015

Previous date: 14.8.2015

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.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

16.8 Additional information available from:

tilaukset(at)taerosol.com