PRF 2-22

Date 28.8.2013 Previous date: 28.8.2013

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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1.2 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

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

1272/2008 (CLP)

Flam. Aerosol 1, H222
Asp. Tox. 1, H304
EUH066

67/548/EEC - 1999/45/EC

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

2.2 Label elements

1272/2008 (CLP)

GHS08 - GHS02

Signal word **Danger**

Hazard Statements

H222	Extremely flammable aerosol.
H304	May be fatal if swallowed and enters airways.
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	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 no expose to temperatures exceeding 50 °C/ 122 °F.

2.3 Other hazards

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	butan	25-35%	F+; R12 ;Flam. Gas 1, H220; Press. Gas 200-857-2
74-98-6	propan	25-35%	F+; R12 ;Flam. Gas 1, H220; Press. Gas 200-827-9
64742-81-0	Kerosine (petroleum),hydrodesulfurized	30-40%	Xn; R65 Asp.tox 1. H 304 EUH066
151-21-3	Natriumlauryylisulfaatti	0,3-0,5%	Xn,R 20/22-37/38-41

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

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	butan	800 ppm (8 h) 1900 mg/m^3 (8 h)	1000 ppm (15 min) 2400 mg/m^3 (15 min)
74-98-6	propan	800 ppm (8 h) 1500 mg/m^3 (8 h)	1100 ppm (15 min) 2000 mg/m^3 (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
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
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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**	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**	50ºC(Hiilivetyseos -20 ºC (Propaani/Butaani))
9.1.7	**Flash point**	Alle 0 ºC
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-% propaani
9.1.10.2	**Upper explosion limit**	9,5 til-% propaani
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

10.3 Possibility of hazardous reactions
-

10.4 Conditions to avoid
Ei saa altistaa lämpötiloille, jotka ovat yli: 20

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/m3OECD 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/l1
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
-

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**
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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 1272/2008

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.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

16.6 **Training advice**
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16.7 **Recommended restrictions**
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16.8 **Additional information available from:**
www.taerosol.com