

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
- 1.1.1 Commercial Product Name**
TEIJO® 2005
- 1.1.2 Product code**
303766, 306397
- 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**
TEIJO Pesukoneet Oy
- P.O.Box** P.O. Box 16, FI-29251 Nakkila
Telephone +358 2 531 2200
Telefax +358 2 537 3192
Business ID 0671564-8
Email teijo@teijopesu.fi
- 1.4 Emergency telephone number**
- 1.4.1 Telephone number, name and address**
+358 9 471 977, Poison Information Centre, Tukholmankatu 17, 00029 HUS, Finland

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
1272/2008 (CLP)
 Met. Corr. 1, H290
 Skin Corr. 1B, H314
67/548/EEC - 1999/45/EC
 C; R34
- 2.2 Label elements**
1272/2008 (CLP)
 GHS05
 Signal word **Danger**
- Hazard Statements**
 H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
- Precautionary Statements**
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- 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 |
|-----------------------|--------------------------------|---------------|----------------|
|-----------------------|--------------------------------|---------------|----------------|

1312-76-1 01-2119456888-17	Silicic acid, potassium salt SiO ₂ /K ₂ O >2,6<3,2	5-10 %	Xi; R36/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319
28348-53-0	Sodium cumenesulphonate	3-7 %	Xi; R36 Eye Irrit. 2, H319
1310-58-3 01-2119487136-33	Potassium hydroxide	3-7 %	Xn; R22;C; R35; Met. Corr. 1, H290; Skin Corr. 1A, H314; Acute Tox. 4, H302
7320-34-5 01-2119489369-18	Tetrapotassium pyrophosphate	1<3 %	Xi; R36 Eye Irrit. 2, H319
146340-16-1	Modified fatty alcohol polyglycol ether	1<3 %	Xi; R38;N; R50 Aquatic Acute 1, H400; Skin Irrit. 2, H315; Aquatic Chronic 3, H412

3.3 Other information

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Take off all contaminated clothing immediately.

4.1.2 Inhalation

Move to fresh air. Call a physician if symptoms occur. If unconscious place in recovery position and seek medical advice.

4.1.3 Skin contact

Wash off immediately with soap and plenty of water. Consult a physician.

4.1.4 Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. Seek immediate medical attention/advice.

4.1.5 Ingestion

Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Seek immediate medical attention/advice.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Not combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

In case of fire hazardous decomposition products may be produced such as: Carbon oxides. Oxides of phosphorus. Sulphur oxides.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

5.4 Specific methods

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Prevent unauthorized access.

6.2 Environmental precautions

Should not be released into the environment. Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Use neutralizing agents. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide adequate ventilation. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place. Keep at temperatures above -6 °C. Keep away from food, drink and animal feedingstuffs. Incompatible materials to avoid: See chapter 10.

7.3 Specific end use(s)

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters**8.1.1 Threshold limits**

Potassium hydroxide	2 mg/m ³ (15 min) ceiling
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8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Provide sufficient air exchange and/or exhaust in work rooms.

8.2.2 Individual protection measures**8.2.2.1 Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Recommended Filter type: FFP2.

8.2.2.2 Hand protection

Protective gloves. Glove material: Nitrile rubber. Chloroprene. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. The exact break through time can be obtained from the protective glove producer and this has to be observed.

8.2.2.3 Eye/face protection

Goggles.

8.2.2.4 Skin protection

Apron. Footwear protecting against chemicals. Protective suit.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

Liquid, colourless, clear

9.1.2 Odour

characteristic

9.1.4 pH

11,6 (10 g/l)

9.1.6 Initial boiling point and boiling range

100 °C

9.1.11 Vapour pressure

2,3 kPa (20°C)

9.1.13 Relative density

1,17 kg/l (20°C)

- 9.1.14 Solubility(ies)**
9.1.14.1 Water solubility completely miscible
- 9.2 Other information**
Organic Substances 0%

10. STABILITY AND REACTIVITY

- 10.1 Reactivity**
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- 10.2 Chemical stability**
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- 10.3 Possibility of hazardous reactions**
No dangerous reaction known under conditions of normal use. Reacts with the following substances: Acids. Metals. Contact with metals liberates hydrogen gas.
- 10.4 Conditions to avoid**
No decomposition if stored and applied as directed.
- 10.5 Incompatible materials**
Acids. Metals.
- 10.6 Hazardous decomposition products**
In case of fire hazardous decomposition products may be produced such as: Carbon oxides. Oxides of phosphorus. Sulphur oxides.

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
- 11.1.1 Acute toxicity**
CAS 1310-58-3: LD50/oral/rat = 333 mg/kg
- 11.1.2 Irritation and corrosion**
Corrosive to skin. Corrosive to eyes.
- 11.1.5 STOT-single exposure**
If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**
CAS 1310-58-3:
LC50/24t/Poecilia reticulata (guppy) = 165 mg/l
LC50/96h/daphnia = 10-100 mg/l
EC50/0,25t/Photobacterium phosphoreum = 22 mg/l
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**
The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.
- 12.3 Bioaccumulative potential**
No information available.
- 12.4 Mobility in soil**
No information available.
- 12.5 Results of PBT and vPvB assessment**
No information available.

- 12.6 Other adverse effects**
Water contaminating class (Germany) 1 (estimation).

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
Dispose of wastes in an approved waste disposal facility. The following Waste Codes are only suggestions: 110113 - degreasing wastes containing dangerous substances, 120301 - aqueous washing liquids, 160303 - inorganic wastes containing dangerous substances.

14. TRANSPORT INFORMATION

- 14.1 UN number** 1814
14.2 UN proper shipping name Potassium hydroxide solution
14.3 Transport hazard class(es) 8
14.4 Packing group III
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**
The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.
15.2 Chemical safety assessment
This information is not available.

16. OTHER INFORMATION

- 16.1 Additions, Deletions, Revisions**
This data sheet contains changes from the previous version in section(s): 2, 3, 11, 7-9, 15, 16.
16.3 Key literature references and sources for data
Report version 13.5.2011, 31.10.2014
16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.