

**SAFETY DATA SHEET****TEIJO 2005**

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

**SECTION 1: Identification of the substance / mixture and of the company / undertaking**

Date issued	26.05.2017
Revision date	30.12.2022

**1.1. Product identifier**

Product name	TEIJO 2005
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**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance / mixture	Hard surface cleaner.
Relevant identified uses	SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites PC35 Washing and cleaning products (including solvent based products) PROC1 Use in closed process, no likelihood of exposure ERC4 Industrial use of processing aids in processes and products, not becoming part of articles
Industrial use	Yes
Professional use	Yes
Consumer use	No

**1.3. Details of the supplier of the safety data sheet****Downstream user**

Company name	Teijo Cleaning Machines Ltd
Postal address	P.O. Box 16
Postcode	FI-29251
City	NAKKILA
Country	Finland
Telephone number	+358 2 531 2200
Fax	+358 2 537 3192
Email	<a href="mailto:teijo@teijopesu.fi">teijo@teijopesu.fi</a>
Website	<a href="http://www.teijopesu.fi/">http://www.teijopesu.fi/</a>

Contact person	Marjut Miettinen
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## 1.4. Emergency telephone number

Emergency telephone	Telephone number: 112 Description: Dial 112. Request Poisons Information Centre
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Skin Corr. 1B; H314
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### 2.2. Label elements

#### Hazard pictograms (CLP)



Composition on the label	Caustic potash 1 --5 %
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.
Precautionary statements	P280 Wear protective gloves / protective clothing / eye protection / face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): 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. P310 Immediately call a POISON CENTER or doctor / physician.

### 2.3. Other hazards

Other hazards	Not entered.
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## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3 Index No.: 019-002-00-8 REACH Reg. No.: 01-2119487136-33-xxxx	Acute Tox. 4; H302 Skin Corr. 1A; H314	1 --5 %	
Tetrapotassium pyrophosphate	CAS No.: 7320-34-5 EC No.: 230-785-7 REACH Reg. No.: 01-2119489369-18	Eye Irrit. 2; H319	1 - 5 %	

Potassium 4-isopropylbenzenesulphonate	CAS No.: 164524-02-1 EC No.: 629-764-9 REACH Reg. No.: 01-2119489427-24-0000	Eye Irrit. 2; H319	1 --5 %
Sodium p-cumenesulphonate	EC No.: 239-854-6 REACH Reg. No.: 01-2119489411-37-0000	Eye Irrit. 2; H319	1 --5 %
Substance comments	The full text for all R-phrases are displayed in section 16.		

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	Fresh air. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Skin contact	Promptly flush contaminated skin with water. Promptly remove clothing if soaked through and flush the skin with water. Get medical attention if any discomfort continues.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Obtain medical attention and bring these instructions.
Ingestion	Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. DO NOT induce vomiting. Get medical attention immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects	Corrosive.
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### 4.3. Indication of any immediate medical attention and special treatment needed

Medical treatment	No recommendation given.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
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### 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	No recommendation given.
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### 5.3. Advice for firefighters

Fire fighting procedures	Move container from fire area if it can be done without risk.
Other information	Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Use personal protective equipment as required. For personal protection, see section 8.
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## 6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into drains, water courses or onto the ground. Collect and dispose of spillage as indicated in section 13.
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## 6.3. Methods and material for containment and cleaning up

Cleaning method	Flush away small spillages with plenty of water. Large quantities should not be discharged into the drain but removed with absorbing material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
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## 6.4. Reference to other sections

Other instructions	No recommendation given.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling	Observe good chemical hygiene practices.
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### 7.2. Conditions for safe storage, including any incompatibilities

Storage	Protect from freezing and direct sunlight.
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### 7.3. Specific end use(s)

Recommendations	Do not handle until all safety precautions have been read and understood.
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Specific use(s)	The identified uses for this product are detailed in Section 1.2.
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## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Caustic potash	CAS No.: 1310-58-3	Limit value (8 h) : 1 mg/m <sup>3</sup> <b>Limit value (short term)</b> Value: 2 mg/m <sup>3</sup>	
Other Information about threshold limit values	No recommendation given.		

### DNEL / PNEC

Substance	Caustic potash
DNEL	<b>Group:</b> Professional <b>Route of exposure:</b> Long-term inhalation (local) <b>Value:</b> 1 mg/m <sup>3</sup>

**Group:** Consumer  
**Route of exposure:** Long-term inhalation (local)  
**Value:** 1 mg/m<sup>3</sup>

## 8.2. Exposure controls

Limitation of exposure on workplace Provide eyewash station.

### Safety signs



### Eye / face protection

Eye protection Use approved safety goggles or face shield.

### Hand protection

Hand protection Protective gloves should be used if there is a risk of direct contact or splash.  
 Suitable gloves type Use protective gloves made of: Nitrile.  
 Breakthrough time Value: > 480 minute(s)  
 Thickness of glove material Value: < 0,3 mm

### Skin protection

Skin protection (except hands) Wear suitable protective clothing as protection against splashing or contamination.

### Respiratory protection

Respiratory protection Under normal conditions of use respiration protection should not be required.  
 Mask type In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P3).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state Colourless-pale yellow liquid.  
 Odour Slight odour.  
 pH Status: In delivery state  
 Value: 13,5  
 Status: In aqueous solution  
 Value: ~ 11,5  
 Method: 1%  
 Boiling point / boiling range Value: > 100 °C  
 Relative density Value: ~ 1120

Solubility	Medium: Water
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## 9.2. Other information

### Other physical and chemical properties

Physical and chemical properties	No recommendation given.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No recommendation given.
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### 10.4. Conditions to avoid

Conditions to avoid	The solution is strongly alkaline and reacts with strong acids with heat generation.
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### 10.5. Incompatible materials

Materials to avoid	Strong acids.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	No hazardous decomposition products.
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## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Substance	Caustic potash
Acute toxicity	<b>Effect tested:</b> LD50 <b>Route of exposure:</b> Oral <b>Method:</b> OECD:s riktlinjer för test 425 <b>Value:</b> 333 mg/kg <b>Animal test species:</b> Råtta

### Other information regarding health hazards

Inhalation	Spray mist irritates the respiratory system, and may cause coughing and difficulties in breathing.
Skin contact	Corrosive.
Eye contact	Corrosive. Risk of serious damage to eyes.

Ingestion Harmful: possible risk of irreversible effects if swallowed.

## 11.2 Other information

Endocrine disruption This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance Caustic potash

Aquatic toxicity, fish  
**Toxicity type:** Acute  
**Value:** 80 mg/l  
**Effect dose concentration:** LC50  
**Exposure time:** 96 hour(s)  
**Species:** Gambusia affinis (moskitfisk)  
**Method:** Statiskt test

**Toxicity type:** Acute  
**Value:** 165 mg/l  
**Effect dose concentration:** LC50  
**Exposure time:** 24 hour(s)  
**Species:** Poecilia reticulata;

Ecotoxicity There are no data on the ecotoxicity of this product.

### 12.2. Persistence and degradability

Persistence and degradability, comments All organic components are considered biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

### 12.4. Mobility in soil

Mobility The product contains substances, which are water soluble and may spread in water systems.

### 12.5. Results of PBT and vPvB assessment

PBT assessment results Not determined.

### 12.6. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

Other adverse effects, comments No recommendation given.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Specify the appropriate methods of disposal	Collect in marked containers and deliver to approved depot.
Product classified as hazardous waste	Yes

## SECTION 14: Transport information

Dangerous goods	Yes
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### 14.1. UN number

ADR/RID/ADN	1814
IMDG	1814
ICAO/IATA	1814

### 14.2. UN proper shipping name

Proper shipping name English ADR/RID/ADN	POTASSIUM HYDROXIDE SOLUTION
ADR/RID/ADN	POTASSIUM HYDROXIDE SOLUTION
IMDG	POTASSIUM HYDROXIDE SOLUTION
ICAO/IATA	POTASSIUM HYDROXIDE SOLUTION

### 14.3. Transport hazard class(es)

ADR/RID/ADN	8
Classification code ADR/RID/ADN	C5
IMDG	8
ICAO/IATA	8

### 14.4. Packing group

ADR/RID/ADN	II
IMDG	II
ICAO/IATA	II

### 14.5. Environmental hazards

### 14.6. Special precautions for user

### 14.7. Maritime transport in bulk according to IMO instruments

Product name	POTASSIUM HYDROXIDE SOLUTION
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### Additional information



Hazard label ADR/RID/ADN	8
Hazard label IMDG	8
Hazard label ICAO/IATA	8

### ADR/RID Other information

Tunnel restriction code	E
Transport category	2
Hazard No.	80
Other applicable information ADR/RID	80

### IMDG Other information

EmS	F-A, S-B
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## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

Other label information	As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
Legislation and regulations	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

### 15.2. Chemical safety assessment

Chemical safety assessment performed	No
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## SECTION 16: Other information

Supplier's notes	The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.
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List of relevant H-phrases (Section 2 and 3)	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H319 Causes serious eye irritation.
Additional information	The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.
Version	3