

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Lithium Waterglass

1.2 Relevant identified uses of the substance or mixture and uses advised against
This product is only for industrial and professional uses.

Application of the substance / the preparation
inorganic binder / adhesive for industrial applications

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Pääasäe AS | ääääää^ÄÖâð
Pääasäe AS
D-GFFIJAUAâ^â^EÄÖää^â^]

Telefon EHIËÇEDIENEËNEËNEË
Telefax EHIËÇEDIENEËNEËNEË

Further information obtainable from:
↔^â~M~ää~ää~ää~ää- *â~^â: EHIËÇEDIENEËNEËNEË

1.4 Emergency telephone number: +49-(0)5060-6080650 (only during opening times)

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC
not applicable

Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

Labelling according to EU guidelines:
Observe the general safety regulations when handling chemicals

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

3.2 Mixtures

Description:
water based, silicate containing binder based on lithium salts.
Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 1310-65-2	lithium hydroxide	< 5%
EINECS: 215-183-4	C R34; Xn R22	
Reg.nr.: 01-2119560576-31	Skin Corr. 1B, H314; Acute Tox. 4, H302	

Additional information

Ionic mixture according to Annex V of the REACH-Regulation.
For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information No special measures required.

After skin contact Immediately rinse with water.

After eye contact Rinse opened eye for several minutes under running water.

After swallowing

Rinse out mouth and then drink plenty of water.

Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

Product itself is not combustible; define extinguishing measures according to neighbouring conditions.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

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5.3 Advice for firefighters**Protective equipment:** No special measures required.**6 Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**7.1 Precautions for safe handling** Avoid contact with eyes, skin and clothing.**Information about fire - and explosion protection:** No special measures required.**7.2 Conditions for safe storage, including any incompatibilities****Storage****Requirements to be met by storerooms and receptacles:**

Do not use light alloy receptacles.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: glass or ceramic.

Unsuitable material for receptacle: zinc.

Suitable material for receptacles and pipes: steel or stainless steel.

Information about storage in one common storage facility:

Do not store together with acids.

Further information about storage conditions: Protect from frost.**Storage class** 11**7.3 Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical facilities:**

No further data; see item 7.

8.1 Control parameters**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.**8.2 Exposure controls****Personal protective equipment****General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.**Protection of hands:** Alkaline resistant gloves**Material of gloves**

Natural Latex with small amount of polychloroprene Latex. (Lapren, Company KCL)

Penetration time of glove materialValue for the permeation: Level \leq 6

Indications are based on information by the producer of the gloves resp. literature or derived from similar substances by analogy.

Eye protection: Safety glasses**9 Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Fluid
Colour:	Opaque
Odour:	Odourless

pH-value at 20 °C: ca. 11.4**Change in condition****Boiling point/Boiling range:** > 100 °C

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Flash point:	Not applicable
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Density at 20 °C:	ca. 1.18 g/cm3
Solubility in / Miscibility with Water:	Fully miscible
Viscosity: dynamic at 20 °C:	< 20 mPas
Solvent content:	
Organic solvents:	0.0 %
9.2 Other information	No further relevant information available.

10 Stability and reactivity**10.1 Reactivity****10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Strong exothermic reaction with acids

Reacts with light alloys to form hydrogen

10.4 Conditions to avoid No further relevant information available.**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:** No dangerous decomposition products known**11 Toxicological information****11.1 Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:****1310-65-2 lithium hydroxide**

Oral	LD 50	210 mg/kg (rat)
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Primary irritant effect:**on the skin:** No irritant effect.**on the eye:** No irritating effect.**Sensitization:** No sensitizing effects known.**Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information**12.1 Toxicity****Aquatic toxicity:****1310-65-2 lithium hydroxide**

EC 10 / 3h	79.2 mg/l (Activated sludge)
EC 50 / 48h	19.1 mg/l (Daphnia magna)
EC 50 / 72h	1.88 mg/l (Pseudokirchneriella subcapitata)
LC 50 / 96h	62.2 mg/l (zebra-fish)

12.2 Persistence and degradability No further relevant information available.**Other information:**

Readily eliminable from water.

Inorganic product; biotic degradation not applicable.

12.3 Bioaccumulative potential No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**Ecotoxicological effects:****Behaviour in sewage processing plants:**

The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

Additional ecological information:**General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.**13 Disposal considerations****13.1 Waste treatment methods****Recommendation**

Can be disposed off with rubble after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

European waste catalogue

Waste catalogue numbers are to be defined according to the AVV-Regulation, specially for application sectors.

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:** Water, if necessary together with cleansing agents.**14 Transport information****14.1 UN-Number**

ADR, ADN, IMDG, IATA Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)ADR, ADN, IMDG, IATA
Class Void**14.4 Packing group**

ADR, IMDG, IATA Void

14.5 Environmental hazards:**Marine pollutant:** No**14.6 Special precautions for user** Not applicable.**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.**15 Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Water hazard class:** water hazard class 1: slightly hazardous for water**Other regulations, limitations and prohibitive regulations**

Chemical Inventories:

Europe (EINECS): yes

Australia (AICS): yes

Canada (DSL): yes

US (TSCA): yes

Japan (ENCS): yes

Korea (KECI): yes

China (IECSC): yes

Taiwan (NECI): yes

Philippine (PICCS): yes

New Zealand (HSNO): yes

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16 Other information

The product is designed exclusively for professional/industrial application (see product information). This information is based on our level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant phrases

H302 Harmful if swallowed.

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H314 Causes severe skin burns and eye damage.

R22 Harmful if swallowed.

R34 Causes burns.

Department issuing MSDS: Kreidezeit Laboratory

Contact: info@kreidezeit.de

*** Data compared to the previous version altered.**