

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 16. January 2018

Version number 3

Revision: 16. January 2018

**SECTION 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 mixture**

inorganic binder / adhesive for industrial applications

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**Kreidezeit Naturfarben GmbH  
Kassemühle 3, D-31195 Lamspringe

Telefon +49 (0)50606080650, Telefax +49 (0)50606080680

**Further information obtainable from:**

info@kreidezeit.de - Tel.: +49 (0)50606080650

**1.4 Emergency telephone number:** Kreidezeit Naturfarben GmbH, +49 (0)50606080650  
only during opening times**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**

GHS07

**Signal word** Warning**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statements**

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**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	≥2.5-<5%
EINECS: 215-183-4	Skin Corr. 1B, H314; Acute Tox. 4, H302	
Reg.nr.: 01-2119560576-31		

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**Trade name: Lithium Waterglass**

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**Additional information**

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

**SECTION 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 15 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.

**SECTION 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.

**5.3 Advice for firefighters**

**Protective equipment:** No special measures required.

**SECTION 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.

**SECTION 7: Handling and storage**

**Handling**

**Precautions for safe handling** Avoid contact with eyes, skin and clothing.

**7.1 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 stability: 6 month

**Storage class** 12 (TRGS 510)

**7.3 Specific end use(s)** No further relevant information available.

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**SECTION 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 material**Value 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**SECTION 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**

Initial boiling point and boiling range: &gt; 100 °C

**Flash point:** Not applicable**Auto-ignition temperature:** Product is not selfigniting.**Explosive properties:** Product does not present an explosion hazard.**Density at 20 °C:** ca. 1.18 g/cm<sup>3</sup>**Solubility in / Miscibility with****Water:** Fully miscible**Viscosity:**

dynamic at 20 °C: &lt; 20 mPas

**Solvent content:****Organic solvents:** 0.0 %**9.2 Other information**

No further relevant information available.

**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**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.

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**10.6 Hazardous decomposition products:** No dangerous decomposition products known**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****CAS: 1310-65-2 lithium hydroxide**

Oral	LD 50	210 mg/kg (rat)
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**Primary irritant effect:****Skin corrosion/irritation**

Irritant effect

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****CAS: 1310-65-2 lithium hydroxide**

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

**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.

**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.**SECTION 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.

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**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.**SECTION 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 Marpol and the IBC Code** Not applicable.**UN "Model Regulation":** Void**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**National regulations****Water hazard class:**

water hazard class 1: slightly hazardous for water (in accordance with Regulation on facilities for the handling of water-endangering substances of 18 April 2017)

**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:**

This product is a mixture.

A Chemical Safety Assessment has not been carried out.

**SECTION 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.

H314 Causes severe skin burns and eye damage.

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**Department issuing SDS:** Laboratory**Contact:** Mrs. Dr. Kissel**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

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