

# EU safety data sheet

**Trade name:** SPIEGELKLEBER; AKUSTIK-PANEEL-KLEBER

**Product no.:** SPK

**Current version :** 2.0.0, issued: 24.09.2024

**Replaced version:** 1.0.0, issued: 14.12.2023

**Region:** GER

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

### 1.1 Product identifier

Trade name

**SPIEGELKLEBER; AKUSTIK-PANEEL-KLEBER**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture**

Chemical product for building, modernising and repairing.

**Uses advised against**

No data available.

### 1.3 Details of the supplier of the safety data sheet

**Address**

LUGATO GmbH & Co. KG

Großer Kamp 1

D-22885 Barsbüttel

Telephone no. +49 (0)40 694 07-0

Fax no. +49 (0)40 694 07-109 + 110

**Advice on Safety Data Sheet**

sicherheit@lugato.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Hazard pictograms**

-

**Signal word**

-

**Hazard statement(s)**

-

**Hazard statements (EU)**

EUH208

Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine, trimethoxy(vinyl)silane, 3-aminopropyltriethoxysilane. May produce an allergic reaction.

**Precautionary statement(s)**

-

### 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

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## 3.1 Substances

Not applicable. The product is not a substance.

## 3.2 Mixtures

### Chemical characterization

Adhesive

### Hazardous ingredients

| No | Substance name   | Additional information   |                                   |     |
|----|--|--|-----------------------------------|-----|
|    | CAS / EC / Index / REACH no  | Classification (EC) 1272/2008 (CLP)  | Concentration                     | %   |
| 1  | <b>AMINOFUNCTIONAL METHYLSILSESQUIXANE</b>   |  |                                   |     |
|    | 128446-60-6<br>-<br>-  | Eye Irrit. 2; H319<br>Flam. Liq. 3; H226<br>Skin Irrit. 2; H315  | < 2,50                            | wt% |
| 2  | <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b>  |  |                                   |     |
|    | 1760-24-3<br>217-164-6<br>-<br>01-2119970215-39  | Aquatic Chronic 2; H411<br>Acute Tox. 4; H332<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317  | < 2,50                            | wt% |
| 3  | <b>trimethoxy(vinyl)silane</b>   |  | <b>pls. refer to footnote (2)</b> |     |
|    | 2768-02-7<br>220-449-8<br>014-049-00-0<br>01-2119513215-52   | Skin Sens. 1B; H317<br>Acute Tox. 4; H332<br>Flam. Liq. 3; H226  | < 0,50                            | wt% |
| 4  | <b>Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane</b> |  |                                   |     |
|    | 93925-42-9<br>300-344-4<br>-<br>01-2119560586-30   | Acute Tox. 4; H302<br>Aquatic Chronic 3; H412<br>Eye Dam. 1; H318<br>Flam. Liq. 3; H226<br>STOT RE 1; H372<br>Acute Tox. 4; H332<br>Muta. 2; H341<br>Repr. 1A; H360F<br>Repr. 1B; H360D<br>STOT SE 1; H370 | < 0,50                            | wt% |
| 5  | <b>3-aminopropyltriethoxysilane</b>  |  |                                   |     |
|    | 919-30-2<br>213-048-4<br>612-108-00-0<br>01-2119480479-24  | Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317  | >= 0,10 - < 1,00                  | wt% |

Full text of H- and EUH-phrases, if not already mentioned in section 2.2: see section 16.

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

| No | Route, target organ, concrete effect |
|----|--------------------------------------|
| 4  | H370<br>oral; thymus; -              |

| Acute toxicity estimate (ATE) values |                       |        |            |
|--------------------------------------|-----------------------|--------|------------|
| No                                   | oral                  | dermal | inhalative |
| 4                                    | 1000 mg/kg bodyweight |        | 13,5 mg/l  |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

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In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

**After inhalation**

Ensure supply of fresh air.

**After skin contact**

Remove with a cloth or paper. Wash off immediately with soap and water.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Seek medical advice immediately.

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

**Effects**

After ingestion the product may hydrolyze in contact with body fluids in the digestive tract to form additional methanol. Observe signs/symptoms of methanol poisoning.

## 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**

Foam; Extinguishing powder; Water spray jet; Carbon dioxide

**Unsuitable extinguishing media**

High power water jet

### 5.2 Special hazards arising from the substance or mixture

None known.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. High risk of slipping due to leakage/spillage of product.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

### 6.3 Methods and material for containment and cleaning up

Collect mechanically. Send in suitable containers for recovery or disposal.

### 6.4 Reference to other sections

No data available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling**

Ensure adequate ventilation. Refer to protective measures listed in section 8.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Wash hands before breaks and after work.

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## Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from atmospheric moisture and water.

### Requirements for storage rooms and vessels

Store product in closed containers. Always keep in containers of same material as the original.

### Incompatible products

Acids; Bases; Keep away from water.

### Storage Class according TRGS 510

10-13 Combustible and Non-combustible liquids and solids that cannot be assigned to storage class 1-8.

## 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### DNEL, DMEL and PNEC values

##### DNEL values (worker)

| No | Substance name  |                     |          | CAS / EC no             |                   |
|----|---|---------------------|----------|-------------------------|-------------------|
|    | Route of exposure   | Exposure time       | Effect   | Value                   |                   |
| 1  | Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane |                     |          | 93925-42-9<br>300-344-4 |                   |
|    | dermal  | Long term (chronic) | systemic | 0,006                   | mg/kg/day         |
|    | inhalative  | Long term (chronic) | systemic | 950                     | mg/m <sup>3</sup> |
|    | inhalative  | Long term (chronic) | local    | 950                     | mg/m <sup>3</sup> |
|    | inhalative  | Short term (acut)   | systemic | 1900                    | mg/m <sup>3</sup> |
|    | inhalative  | Short term (acut)   | local    | 1900                    | mg/m <sup>3</sup> |

##### DNEL value (consumer)

| No | Substance name  |                     |          | CAS / EC no             |                   |
|----|---|---------------------|----------|-------------------------|-------------------|
|    | Route of exposure   | Exposure time       | Effect   | Value                   |                   |
| 1  | Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane |                     |          | 93925-42-9<br>300-344-4 |                   |
|    | oral  | Long term (chronic) | systemic | 0,003                   | mg/kg/day         |
|    | oral  | Short term (acut)   | systemic | 0,003                   | mg/kg/day         |
|    | dermal  | Long term (chronic) | systemic | 0,003                   | mg/kg/day         |
|    | dermal  | Short term (acut)   | systemic | 0,003                   | mg/kg/day         |
|    | inhalative  | Long term (chronic) | systemic | 106                     | mg/m <sup>3</sup> |
|    | inhalative  | Short term (acut)   | systemic | 212                     | mg/m <sup>3</sup> |
|    | inhalative  | Long term (chronic) | local    | 425                     | mg/m <sup>3</sup> |
|    | inhalative  | Short term (acut)   | local    | 950                     | mg/m <sup>3</sup> |

##### PNEC values

| No | Substance name  |                   | CAS / EC no             |            |
|----|---|-------------------|-------------------------|------------|
|    | ecological compartment  | Type              | Value                   |            |
| 1  | Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane |                   | 93925-42-9<br>300-344-4 |            |
|    | water   | fresh water       | 0,001                   | mg/L       |
|    | water   | marine water      | 0                       | mg/L       |
|    | water   | Aqua intermittent | 0,014                   | mg/L       |
|    | sewage treatment plant  | -                 | 100                     | mg/L       |
|    | secondary poisoning   | -                 | 0,2                     | mg/kg food |

### 8.2 Exposure controls

Appropriate engineering controls

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No data available.

## Personal protective equipment

### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn.

### Eye / face protection

No special measures required.

### Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material                      Nitrile impregnated protective gloves

### Other

No special measures required.

### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                      |                   |
|--------------------------------------|-------------------|
| <b>State of aggregation</b>          | liquid            |
| <b>Form</b>                          | pasty             |
| <b>Colour</b>                        | colourless; black |
| <b>Odour</b>                         | mild              |
| <b>pH value</b>                      | No data available |
| <b>Boiling point / boiling range</b> | No data available |
| <b>Melting point/freezing point</b>  | No data available |
| <b>Decomposition temperature</b>     | No data available |
| <b>Flash point</b>                   | No data available |
| <b>Ignition temperature</b>          | No data available |
| <b>Flammability</b>                  | No data available |
| <b>Lower explosion limit</b>         | No data available |
| <b>Upper explosion limit</b>         | No data available |
| <b>Vapour pressure</b>               | No data available |
| <b>Relative vapour density</b>       |                   |

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No data available

## Relative density

No data available

## Density

Value 1,01 g/cm<sup>3</sup>

## Solubility

No data available

## Partition coefficient n-octanol/water (log value)

No data available

## Kinematic viscosity

Value 200 Pa\*s  
Type dynamic  
Comments at a shear force of 20/s

## Particle characteristics

No data available

## 9.2 Other information

### Other information

No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

No data available.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

Acids; Bases; Water

### 10.6 Hazardous decomposition products

Methanol; Possibility of splitting-off of small amounts of formaldehyde

## SECTION 11: Toxicological information

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

| Acute oral toxicity |   |            |                  |
|---------------------|---|------------|------------------|
| No                  | Substance name  | CAS no.    | EC no.           |
| 1                   | Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane | 93925-42-9 | 300-344-4        |
| LD50                |   | 1000       | mg/kg bodyweight |
| Species             | rat   |            |                  |
| Method              | OECD 423  |            |                  |
| Source              | ECHA  |            |                  |

### Acute dermal toxicity

No data available

### Acute inhalational toxicity

| No | Substance name  | CAS no.    | EC no.    |
|----|---|------------|-----------|
| 1  | Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane | 93925-42-9 | 300-344-4 |

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|                      |          |      |      |
|----------------------|----------|------|------|
| LC50                 | >        | 13,5 | mg/l |
| Duration of exposure |          | 4    | h    |
| State of aggregation | Vapour   |      |      |
| Species              | rat      |      |      |
| Method               | OECD 403 |      |      |
| Source               | ECHA     |      |      |

## Skin corrosion/irritation

No data available

## Serious eye damage/irritation

No data available

## Respiratory or skin sensitisation

No data available

## Germ cell mutagenicity

No data available

## Reproduction toxicity

No data available

## Carcinogenicity

No data available

## STOT - single exposure

No data available

## STOT - repeated exposure

No data available

## Aspiration hazard

No data available

## Endocrine disrupting properties

No data available

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Eye contact with the product may lead to irritation.

## 11.2 Information on other hazards

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Toxicity to fish (acute)

No data available

#### Toxicity to fish (chronic)

No data available

#### Toxicity to Daphnia (acute)

| No | Substance name  | CAS no.    | EC no.    |
|----|---|------------|-----------|
| 1  | Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane | 93925-42-9 | 300-344-4 |

|                      |               |     |      |
|----------------------|---------------|-----|------|
| EC50                 | >             | 150 | mg/l |
| Duration of exposure |               | 48  | h    |
| Species              | Daphnia magna |     |      |
| Method               | OECD 202      |     |      |
| Source               | ECHA          |     |      |

#### Toxicity to Daphnia (chronic)

No data available

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| Toxicity to algae (acute) |   |            |           |
|---------------------------|---|------------|-----------|
| No                        | Substance name  | CAS no.    | EC no.    |
| 1                         | Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane | 93925-42-9 | 300-344-4 |
| EL50                      |   | >          | 320 mg/l  |
| Duration of exposure      |   |            | 72 h      |
| Species                   | Desmodesmus subspicatus   |            |           |
| Method                    | OECD 201  |            |           |
| Source                    | ECHA  |            |           |

| Toxicity to algae (chronic) |  |  |  |
|-----------------------------|--|--|--|
| No data available           |  |  |  |

| Bacteria toxicity |  |  |  |
|-------------------|--|--|--|
| No data available |  |  |  |

## 12.2 Persistence and degradability

No data available.

## 12.3 Bioaccumulative potential

No data available.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Endocrine disrupting properties

No data available.

## 12.7 Other adverse effects

No data available.

## 12.8 Other information

| Other information   |
|---|
| Do not discharge into drains or waters and do not dispose of in public landfills. |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Completely emptied packagings can be given for recycling. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

## SECTION 14: Transport information

### 14.1 UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

### 14.2 UN proper shipping name

Not classified as dangerous in the meaning of transport regulations.

### 14.3 Transport hazard class(es)

Not classified as dangerous in the meaning of transport regulations.

### 14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

### 14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.



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## 14.6 Special precautions for user

No data available.

## 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

## SECTION 15: Regulatory information

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

#### EU regulations

##### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

##### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

##### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

| No | Substance name  | CAS no.    | EC no.    | No |
|----|---|------------|-----------|----|
| 1  | 3-aminopropyltriethoxysilane  | 919-30-2   | 213-048-4 | 75 |
| 2  | ethylenediamine   | 107-15-3   | 203-468-6 | 75 |
| 3  | Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane | 93925-42-9 | 300-344-4 | 20 |
| 4  | trimethoxy(vinyl)silane   | 2768-02-7  | 220-449-8 | 75 |

##### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

##### **Other regulations**

Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

#### National regulations

##### **Water Hazard Class (Germany)**

Class

2

Source

Classification according to AwSV (Regulation on facilities for handling substances that are hazardous to water).

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

#### **Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

#### **Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H226

Flammable liquid and vapour.

H302

Harmful if swallowed.

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|       |   |
|-------|---|
| H314  | Causes severe skin burns and eye damage.                        |
| H315  | Causes skin irritation.   |
| H317  | May cause an allergic skin reaction.                            |
| H318  | Causes serious eye damage.                                      |
| H319  | Causes serious eye irritation.                                  |
| H332  | Harmful if inhaled.   |
| H341  | Suspected of causing genetic defects                            |
| H360D | May damage the unborn child.                                    |
| H360F | May damage fertility.   |
| H370  | Causes damage to organs.  |
| H372  | Causes damage to organs through prolonged or repeated exposure. |
| H411  | Toxic to aquatic life with long lasting effects.                |
| H412  | Harmful to aquatic life with long lasting effects.              |

## **Creation of the safety data sheet**

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Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: [umco@umco.de](mailto:umco@umco.de)

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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