

# **SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006**

## **silago® SL1**

Version 1.0  
Revision Date 05.05.2009  
R40851 1/6 EN

Print Date 11.05.2009

### **1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

#### **Product information**

Trade name: silago® SL1  
Use: building industry  
Supplier: silago GmbH  
Sudetenstraße 3  
D 82031 Gruenwald  
Responsible Department: Sicherheit und Umwelt  
Telephone: +49 (0)89 – 3815 6305  
Telefax: +49 (0)89 - 3815 6305 0  
Emergency telephone: +49 (0)171- 8540974  
E-mail address: [info@silago.de](mailto:info@silago.de)

### **2. HAZARDS IDENTIFICATION**

#### **Other information**

The product does not need to be labeled in accordance with EC directives or respective national laws.  
Solutions of a molar ratio  $\geq 3,2$  and concentration  $< 40\%$  are not classified as dangerous.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Chemical nature**

Aqueous solution

#### **Hazardous components**

Silicic acid, sodium salt, mol ratio  $\text{SiO}_2/\text{Na}_2\text{O} > 3,2$   
Concentration:  $< 40,00\%$   
CAS-No.: 1344-09-8 EC-No.: 215-687-4  
Classification: Xi; R36/37/38

For the full text of the R-phrases mentioned in this Section, see Section 16.

### **4. FIRST AID MEASURES**

General advice: Remove from exposure, lie down. Take off all contaminated clothing immediately.

Inhalation: Move to fresh air. If symptoms persist, call a physician.

Skin contact: Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: Clean mouth with water and drink afterwards plenty of water. Obtain medical attention.

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### **Notes to physician**

Treatment: Treat symptomatically. Treatment according to the doctor's diagnosis of the patient.

### **5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

Specific hazards during fire fighting: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Risk of closed containers bursting if strongly heated. Cool closed containers exposed to fire with water spray.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective suit.

### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions: Use personal protective equipment. Avoid contact with skin and eyes. Danger of slipping if spilled

Environmental precautions: Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Treat recovered material as described in the section "Disposal considerations". Flush with plenty of water.

### **7. HANDLING AND STORAGE**

#### **Handling**

Advice on safe handling: Keep container tightly closed. Handle and open container with care. Avoid formation of aerosol.

Advice on protection against fire and explosion: The product is not flammable. Normal measures for preventive fire protection.

#### **Storage**

Requirements for storage areas and containers: Store in cool place. Store in original container. Suitable materials for containers: Stainless steel, Mild steel, Unsuitable materials for containers: Aluminum, Zinc, glass, ceramics

Advice on common storage : Keep away from food, drink and animal feeding stuffs. Do not store near acids.

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Further information on storage conditions: Protect from frost. Keep away from direct sunlight. Keep away from heat.  
German storage class: 12: Non Combustible Liquids

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Components with workplace control parameters**

Not applicable.

#### **Personal protective equipment**

Respiratory protection: Required if vapors or aerosol are released. In case of insufficient ventilation, wear suitable respiratory equipment.  
Particle filter: P2

Hand protection: Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.  
Protective gloves should be replaced at first signs of wear.  
The following materials are suitable:

Material	strength of material	Break through time
Natural Rubber	0,5 mm	8 h
Nitrile rubber	0,35 mm	8 h
butyl-rubber	0,5 mm	8 h
Fluorinated rubber	0,4 mm	8 h
Polyvinylchloride	0,5 mm	8 h

Eye protection: Tightly fitting safety goggles  
Body Protection: Wear suitable protective clothing. impervious clothing  
Hygiene measures: Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday.

#### **Engineering measures**

Refer to protective measures listed in sections 7 and 8.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

#### **Appearance**

Form: liquid  
Color: colorless  
Odor: odorless

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### **Safety data**

Boiling point/boiling range:	ca. 100 °C
Flash point:	not applicable
Explosive properties:	Product is not explosive.
Density:	1,37 g/cm <sup>3</sup> ; 20 °C
Water solubility:	soluble
pH:	12; 20 °C; (undiluted)

### **10. STABILITY AND REACTIVITY**

Conditions to avoid:	Extremes of temperature and direct sunlight. Protect from frost.
Materials to avoid:	Acids, Light metals, Zinc, Fluorine
Hazardous reactions:	Gives off hydrogen by reaction with base metals (zinc, aluminum). Risk of explosion. Exothermic reaction with strong acids.
General advice:	No decomposition if stored and applied as directed.

### **11. TOXICOLOGICAL INFORMATION**

Ingestion:	LD50 rat > 2.000 mg/kg
Skin contact:	May have irritant effects.
Eye contact:	Contact with eyes may cause irritation.
Sensitization:	No sensitizing effect known.
Further information:	Other dangerous properties cannot be excluded. Handle in accordance with good industrial hygiene and safety practice.

### **12. ECOLOGICAL INFORMATION**

#### **Elimination information (persistence and degradability)**

Biodegradability: The methods for determining biodegradability are not applicable to inorganic substances.

#### **Ecotoxicity effects**

Toxicity to fish:	LC50 > 100 mg/l
Toxicity to bacteria:	Toxicity to bacteria EC50 > 100 mg/l

#### **Further information on ecology**

Additional ecological information: Ecological injuries are not known or expected under normal use.

### **13. DISPOSAL CONSIDERATIONS**

Product:	Dispose of as special waste in compliance with local and national regulations. Disposal together with normal waste is
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not allowed. Special disposal required according to local regulations.

Packaging: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Clean container with water.

European Waste Catalogue Number: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

### **14. TRANSPORT INFORMATION**

**ADR:** Not dangerous goods  
**RID:** Not dangerous goods  
**IMDG:** Not dangerous goods

### **15. REGULATORY INFORMATION**

#### **Libeling according to EC Directives**

The product does not need to be labeled in accordance with EC directives or respective national laws.

Exceptional labeling of Special substances/preparations: Handle in accordance with good industrial hygiene and safety practice.

#### **National legislation**

WGK (DE): WGK:1; slightly water endangering; Self-classification according VwVwS of 17 May 1999, Annex 3

Major Accident Hazard Legislation: Does not fall under the German StörfallIV. –

### **16. OTHER INFORMATION**

#### **Full text of R-phrases referred to under sections 2 and 3**

R36/37/38 Irritating to eyes, respiratory system and skin.

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#### **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

|| Indicates updated section.