## **Safety Data Sheet**

according to Regulation (EC) No. 1907/2006 (REACH)



## SILCADUR HTI

Version number: 5.0 Revision: 13.01.2022
Replaces version of: 17.06.2019 (4) First version: 11.03.2011

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

#### 1.1 Product identifier

Trade name SILCADUR HTI

**Registration number (REACH)**Not relevant (mixture)

**CAS number** not relevant (mixture)

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

**Relevant identified uses**Impregnating product

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

SILCA Service- und Vertriebsgesellschaft für

Dämmstoffe mbHTelefax: +49 (0) 2104 9727-25Elberfelder Straße 200ae-mail: reach@silca-online.deD-40822 MettmannWebsite: www.silca-online.de

Germany

e-mail (competent person) sdb@csb-online.de

Please do not use this e-mail address to ask for the latest safety data sheet. For this purpose contact SILCA Service- und Vertriebsgesellschaft für Dämmstoffe mbH.

Telephone: +49 (0) 2104 9727-0

#### 1.4 Emergency telephone number

Poison centre		
Country	Name	Telephone
Germany	Giftinformationszentrum - Nord Göttingen	+49 551 19240

As above or nearest toxicological information centre.

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008 (CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/ EC.

#### 2.2 Label elements

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

**Signal word** Not required.

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**Pictograms** Not required.

Supplemental hazard information

**EUH210** Safety data sheet available on request.

#### 2.3 Other hazards

## **Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

Not relevant (mixture).

#### 3.2 Mixtures

Aqueous solution of the substance.

## **Description of the mixture**

Hazardous ingredients					
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	
Silicic acid, potassium salt (MR >2,6)	CAS No 1312-76-1	1-<5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	<u>(1)</u>	
	EC No 215-199-1				

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Silicic acid, potassium salt (MR >2,6)	Skin Irrit. 2; H315: C ≥ 40 % Eye Irrit. 2; H319: C ≥ 40 %	-	-	-

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### **General notes**

In all cases of doubt, or when symptoms persist, seek medical advice.

## **Following inhalation**

Provide fresh air.

## Following skin contact

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

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#### Following eye contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

#### **Following ingestion**

Rinse mouth. Do not induce vomiting.

Get medical advice/attention if you feel unwell.

#### Notes for the doctor

None.

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

These information are not available.

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

None.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

#### Suitable extinguishing media

Co-ordinate firefighting measures to the fire surroundings

## 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

## 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

## Special protective equipment for firefighters

use suitable breathing apparatus

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Ventilate affected area.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

## For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

Chemical protection suit.

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## 6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

## 6.3 Methods and material for containment and cleaning up

#### Advice on how to clean up a spill

Collect spillage.

Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

#### **Appropriate containment techniques**

Use of adsorbent materials.

## Other information relating to spills and releases

Place in appropriate containers for disposal.

Ventilate affected area.

#### 6.4 Reference to other sections

Personal protective equipment: see section 8.

Incompatible materials: see section 10. Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Avoid contact with skin and eyes.

Do not breathe vapour/spray.

## Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

#### Specific notes/details

None.

#### Handling of incompatible substances or mixtures

Do not mix with acids.

#### Measures to protect the environment

Avoid release to the environment.

## Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Flammability hazards

None.

## **Incompatible substances or mixtures**

Incompatible materials: see section 10.

## Protect against external exposure, such as

frost

## Maintaining of the integrity of the substance or mixture

Keep container tightly closed and dry.

#### **Consideration of other advice**

Keep away from food, drink and animal feeding stuffs.

#### **Ventilation requirements**

Provision of sufficient ventilation.

#### **Packaging compatibilities**

Keep only in original container.

## 7.3 Specific end use(s)

No information available.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

#### Relevant DNELs of components of the mixture Name of sub-**CAS No** End-Threshol **Protection Used** in **Exposure time** stance point d level goal, route of exposure 1312-76-1 Silicic acid, potassi-DNEL 5,61 mg/ human, inhalatworker (industry) chronic - systemum salt (MR >2,6) m³ ic effects ory Silicic acid, potassi-1312-76-1 DNEL 1,49 mg/ chronic - systemhuman, dermal worker (industry) um salt (MR >2,6) ic effects kg bw/day

#### **Relevant PNECs of components of the mixture CAS No Endpoint Threshold level** Name of substance **Environmental com**partment 7,5 <sup>mg</sup>/<sub>l</sub> Silicic acid, potassium salt (MR 1312-76-1 **PNEC** freshwater >2,6) 1 <sup>mg</sup>/<sub>I</sub> Silicic acid, potassium salt (MR 1312-76-1 **PNEC** marine water >2,6) PNEC 348 <sup>mg</sup>/<sub>I</sub> Silicic acid, potassium salt (MR 1312-76-1 sewage treatment plant >2,6) (STP)

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## 8.2 Exposure controls

#### **Appropriate engineering controls**

General ventilation.

## Individual protection measures (personal protective equipment)

## **Eye/face protection**

Wear eye/face protection.

#### **Hand protection**

#### **Protective gloves**

Material	Material thickness	Breakthrough times of the glove material
IIR: isobutene-isoprene (butyl) rubber	≥ 0,5 mm	>480 minutes (permeation: level 6)

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

## **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

Particulate filter device (EN 143).

#### **Environmental exposure controls**

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

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

Physical state liquid

**Colour** colourless

**Odour** faintly perceptible

Melting point/freezing point not determined

Boiling point or initial boiling point and boiling ~100 °C

range

**Flammability** non-combustible

Lower and upper explosion limit not determined

**Flash point** not determined

Auto-ignition temperature not determined

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**Decomposition temperature** not relevant

**pH (value)** 11 (20 °C)

**Kinematic viscosity** not determined

**Dynamic viscosity** not determined

Solubility(ies)

Water solubility miscible in any proportion

Partition coefficient n-octanol/water (log value) not relevant

(inorganic)

**Vapour pressure** not determined

Density and/or relative density

Density  $1,05 \, {}^{9}/_{cm^3}$  at 20  ${}^{\circ}$ C

Relative vapour density information on this property is not available

Particle characteristics not relevant

(liquid)

9.2 Other information

Information with regard to physical hazard

classes

hazard classes acc. to GHS (physical hazards):

not relevant

**Other safety characteristics** there is no additional information

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

May be corrosive to metals.

## 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

## 10.3 Possibility of hazardous reactions

Do not mix with acids.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

acids, carbon dioxide (CO2)

## 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

## **SECTION 11: Toxicological information**

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

#### **Classification procedure**

If not otherwise specified the classification is based on:

Ingredients of the mixture (additivity formula).

## Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/ EC.

#### **Acute toxicity**

Test data are not available for the complete mixture.

## Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Silicic acid, potassium salt (MR >2,6)	1312-76-1	oral	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rat, female
Silicic acid, potassium salt (MR >2,6)	1312-76-1	inhalation: vapour	LC50	>2,06 <sup>mg</sup> / <sub>l</sub> /4h	rat
Silicic acid, potassium salt (MR >2,6)	1312-76-1	dermal	LD50	>5.000 <sup>mg</sup> / <sub>kg</sub>	rat

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitisation

## **Skin sensitisation**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## **Respiratory sensitisation**

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Germ cell mutagenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

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#### Carcinogenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

#### Reproductive toxicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Specific target organ toxicity - single exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

#### 11.2 Information on other hazards

There is no additional information.

#### **Endocrine disrupting properties**

None of the ingredients are listed.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

## **Aquatic toxicity (acute)**

Test data are not available for the complete mixture.

## Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Silicic acid, potassi- um salt (MR >2,6)	1312-76-1	LC50	>146 <sup>mg</sup> / <sub>l</sub>	orfe (Leuciscus idus)	48 h
Silicic acid, potassi- um salt (MR >2,6)	1312-76-1	EC50	207 <sup>mg</sup> / <sub>l</sub>	algae (Desmod- esmus subspicatus)	72 h
Silicic acid, potassi- um salt (MR >2,6)	1312-76-1	EC50	>146 <sup>mg</sup> / <sub>l</sub>	daphnia magna	24 h

## **Aquatic toxicity (chronic)**

Test data are not available for the complete mixture.

## 12.2 Persistence and degradability

#### **Biodegradation**

The study does not need to be conducted, the relevant substances in the mixture are inorganic.

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#### **Persistence**

The study does not need to be conducted, the relevant substances in the mixture are inorganic.

#### 12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

## 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## 12.6 Endocrine disrupting properties

None of the ingredients are listed.

#### 12.7 Other adverse effects

Data are not available.

#### Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

## Waste treatment of containers/packagings

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

#### **Remarks**

Please consider the relevant national or regional provisions.

## **SECTION 14: Transport information**

14.1	UN number or ID number	not assigned
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for user	-
14.7	Maritime transport in bulk according to IMO instruments	-

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## **SECTION 15: Regulatory information**

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

#### Relevant provisions of the European Union (EU)

## Restrictions according to REACH, Annex XVII

Name	Name acc. to inventory	CAS No	Restriction
Silicic acid, potassium salt (MR >2,6)	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	-	R3

#### Legend

- R3 1. Shall not be used in:
  - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
  - tricks and jokes,
  - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
  - 2. Articles not complying with paragraph 1 shall not be placed on the market.
  - 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
  - can be used as fuel in decorative oil lamps for supply to the general public, and
  - present an aspiration hazard and are labelled with H304.
  - 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
  - 5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
  - (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil or even sucking the wick of lamps may lead to life-threatening lung damage";
  - (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage'; (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';

#### List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

#### **Seveso Directive**

Not assigned.

# Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

None of the ingredients are listed.

#### Regulation on the marketing and use of explosives precursors

None of the ingredients are listed.

#### Regulation on substances that deplete the ozone layer (ODS)

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None of the ingredients are listed.

## Regulation concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

## Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

#### **National regulations (Germany)**

# Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK

(water hazard class) - classification acc. to annex 1 (AwSV)

1

## **Technical instructions on air quality control (Germany)**

Number	Group of substances	Class	Conc.	Mass flow	Mass con- centration	Nota- tion
-	not assigned	-	≥ 25 wt%	-	-	-

## Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 12

(non-combustible liquids)

#### Other information

Observe employment restrictions for young people according to § 22 JArbSchG.

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier. Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

## **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement con- cerning the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)

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Abbr.	Descriptions of used abbreviations	
DNEL	Derived No-Effect Level	
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
Eye Dam.	Seriously damaging to the eye	
Eye Irrit.	Irritant to the eye	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
IMDG	International Maritime Dangerous Goods Code	
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008	
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval	
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval	
LGK	Lagerklasse (storage class according to TRGS 510, Germany)	
NLP	No-Longer Polymer	
РВТ	Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)	
Skin Corr.	Corrosive to skin	
Skin Irrit.	Irritant to skin	
SVHC	Substance of Very High Concern	
TRGS	Technische Regeln für GefahrStoffe (technical rules for hazardous substances, Germany)	
vPvB	Very Persistent and very Bioaccumulative	

## Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH).

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Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

## **Classification procedure**

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H315	Causes skin irritation.
H319	Causes serious eye irritation.

## Responsible for the safety data sheet

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#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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