



**According to Directive 1907/2006/EC (REACH) and 453/2010/EU
Version 1.5 Revision date: 01/03/2023**

SECTION 1: Identification of the Substance/Mixture and of the Company

1.1 Product identifier:

Trade name: Standard columns for PCB- / Dioxin Analysis
Product no.: 13375, 19512

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

Relevant identified uses:

Product for analytical use.

Exposure Scenario Classification according REACH, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

The exposure scenario is integrated into sections 1-16.

Uses advised against:

not described

1.3 Details of the supplier of the safety data sheet:

Company: LCTech GmbH
Daimlerstr. 4
D-84419 Obertaufkirchen
Germany
Tel.: +49 8082 2717-0
Fax : +49 8082 2717-100
E-mail : info@LCTech.de

1.4 Emergency telephone number

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service.

DE: Gemeinsames Giftinformationszentrum (GGIZ):
99089 Erfurt tel. +49 361 730 730

SECTION 2: Hazards identification

2.1 Classification of the substance(s) or mixture(s) – in the complete product

CLP Directive 1272/2008/EC:

GHS pictograms



Signal word

**GHS05
Danger**

Hazard identification
H314

Hazard classes/categories
**Skin Corrosion 1A.
Serious Damage to Eyes 1**



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2.2 Hazard Description

Possible Hazards from physicochemical Properties:

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive.

Information pertaining to particular Risks to Human and possible Symptoms:

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

Information pertaining to particular Risks to the Environment:

--- Avoid contact of substance/mixture to environment. ---


Other Hazards:

--- It is not possible to declare fine dust (< 12 µm) as dangerous or not.
We recommend not to inhale product dust. Dust may cause damage of the inhalatory system if inhaled over a longer period.

2.3 Other hazards: Description of the comonents

10 pc./ 25 pc. cartridges containing sulfuricacid (OEM)

CLP Directive 1272/2008/EC:

GHS pictograms	
	GHS05
Signal word	DANGER
<u>Hazard identification</u>	<u>Hazard classes/categories</u>
H314	Skin Corrosion 1A Serious Damage to Eyes 1

SECTION 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

10 pc./ 25 pc. Cartridges containing sulfuric acid (OEM)

Chemical: silica CAS No.: 7631-86-9
 Concentration: 20 - 80 %
 Formula: SiO₂
 Pseudonym: Silicon dioxide
 REACH Reg. No.: 01-2119379499-16-XXXX
 REACH Preregistration (for): 05-2114282046-51-0000 (2018)

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EC No.: 231-545-4	MFCD: 00011232
RTECS: VV7315000	
TSCA Inventory: listed	
acc. 1999/45/EC: -	acc. CLP (GHS): not necessary
Chemical: sulphuric acid	CAS No.: 7664-93-9
Concentration: 30 - 51 %	
Formula: H 2 SO 4	
REACH Reg. No.: 01-2119458838-20-xxxx	
EC No.: 231-639-5	Indice No.: 016-020-00-8
RTECS: WS5600000	
TSCA Inventory: listed	
acc. 1999/45/EC: R 35	acc. CLP (GHS): H314

3.2 Remarks

List of H phrases: see chapter 16

SECTION 4: First Aid Measures**4.1 Description of first aid measures**

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor.

After SKIN Contact

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. Avoid neutralisation. Then apply a loose bandage.

After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

After INHALATION of Vapours

If vomiting and if insensible place patient in recovery position and keep airways free.

After ORAL Intake

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences.



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4.2 Indication of any immediate medical attention and special treatment needed

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. After INTAKE administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTRESS ensure that the patient inhales oxygen.

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

5.2 Special hazards arising from the substance or mixture

Danger for environment **only in the event of a large-scale leakage** or formation of hazardous substances.

5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic. For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

5.4 Additional Information

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective gloves (see 8.2). Wear eye protection, respectively face protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

6.2 Methods and material for containment and cleaning up

And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water.



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SECTION 7: Handling and Storage

7.1 Precautions for safe handling

7.2 Conditions for safe storage, including any incompatibilities

The original product package allows a safe storage.

Storage class (German chemical industry): see chapter 12.1

Requirements for Stock Rooms and Containers

Keep original product packages tightly closed during handling and storage. Use inbreakable container for transport of glass bottles.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

10 pc./25 pc. Cartridges containing sulfuric acid (OEM)

Chemical: silica

CAS No.: 7631-86-9

TRGS 900 (DE): 1,25 A / 4 E mg/m³

E /e respirable

Short-term exposure factor: Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z)

not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value:

4 e mg/m³

TRGS 905 (DE): R F C

Australia NICNAS: not listed

Canada CEPA 1999: DSL yes

Japan CSCL/PRTR: not listed

Japan ISHL: Article 57-2 (SDS required)

Japan PDSCL: not listed

South Korea TCCA: not listed

California Proposition 65 List: not listed

TSCA Inventory: listed

NIOSH: Occupational Carcinogen List yes

OSHA: not listed

Chemical: sulphuric acid

CAS No.: 7664-93-9

EU value: 0.1 e mg/m³

TRGS 900 (DE): 0.1 E mg/m³

E /e respirable

Short-term exposure factor: 1 (I), Y

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z)

not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 0,1 e mg/m³

TRGS 905 (DE): R F C

Australia NICNAS: not listed

Canada CEPA 1999: DSL Yes

Japan CSCL/PRTR: not listed

Japan PDSCL: Deleterious Substance Yes

Japan ISHL: Article 57-2 (SDS required)

South Korea TCCA: Accident Precaution Chemical Yes

TSCA Inventory: listed

California Proposition 65 List: not listed

NIOSH: NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen);

TWA 1 mg/m³

OSHA: TWA 1 mg/m³

**According to Regulation (EC) No 1907/2006****Productname: Standard columns for PCB-/Dioxin Analysis, P/N: 13375, 19512****8.2 Exposure controls**

The highest level of cleanliness must be maintained at the workplace.

Respiratory Protection

Only if additional recommendations in test instruction or packing insert. Use for regular working with dry powders a dust mask or a dust protection filter, class P3.

Hand Protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC (f.ex. from Ansell or KCL).

Eye Protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection or face protection.

Skin Protection

Recommended to avoid clothing damage, and to avoid contamination with these hazards.

Personal Hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

SECTION 9. Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**10 pc./25 pc. Cartridges containing sulfuric acid (OEM)

Color: colourless Odor: odorless Appearance: solid

9.2 Other informationSafety relevant Basis Data

10 pc./ 25 pc. Cartridges containing sulfuric acid (OEM)

pH: 0-1

Relevant Properties of Substance Group

9.3 Additional Information

not necessary

**According to Regulation (EC) No 1907/2006****Productname: Standard columns for PCB-/Dioxin Analysis, P/N: 13375, 19512****SECTION 10: Stability and Reactivity****10.1 Conditions to avoid**

If on label.

10.2 Incompatible materials

Avoid contact with strong acids or alkalines.

10.3 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored.
Decompositions are not observed during the expiration period under recommended conditions.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Following information is valid for pure substances.

10 pc./ 25 pc. cartridges containing sulfuric acid (OEM)

Chemical: silica	CAS No.: 7631-86-9
LD50 _{orl rat.} : >>2000 mg/kg	
Chemical: sulphuric acid	CAS No.: 7664-93-9
LD50 _{orl rat.} : 2140 mg/kg	
LC50 _{ihl mouse.} : 320 _{4h} mg/L	
LC50 _{ihl rat.} : 510 mg/m ³	

SECTION 12: Ecological information**12.1 Toxicity**

Following information is valid for pure substances.

10 pc./25 pc. cartridges containing sulfuric acid (OEM)

Chemical: silica	CAS No.: 7631-86-9
WGK (DE): nwg	WGK No.: 0849
Storage class (VCI): 13	
Chemical: sulphuric acid	CAS No.: 7664-93-9
LC50 fish/96h : 16-29 mg/L	
EC50 daphnia/48h : 29 2 _{4h} mg/L	
WGK (DE): 1	WGK No.: 0182
Storage class (VCI): 8 B	



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SECTION 13: Disposal Considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain Information on laboratory waste disposal (waste code number 16 05 06).

13.1 Waste treatment methods

Empty containers of corrosive reagents prior to disposal, rinse with water.

SECTION 14: Transport Information

14.1 UN No.:

3260

14.2 Proper shipping name:

Corrosive solid, acidic, inorganic, n.o.s. (sulphuric acid mixture)

14.3 Class: 8

14.4 Packing group: II

Road transport

Classification code: C2

Limited Quantity: LQ 23

Excepted Quantity: E 2

Tunnel restriction code: E

Air transport

PAX: 859

CAO: 863

max. weight PAX: 15 Kg

max. weight CAO: 50 Kg

Maritime transport

EmS:

F-A, S-B

Storage category: B

SECTION 15: Regulatory Information

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

German act governing protection from hazardous substances

(Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013

German order governing protection from hazardous substances

(Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV),

revised on November 2010, according to Directive 98/24/EC

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

Announcement BekGS 220 (DE), Safety Data Sheet, June 2013

**According to Regulation (EC) No 1907/2006****Productname: Standard columns for PCB-/Dioxin Analysis, P/N: 13375, 19512****10 pc./ 25 pc. cartridges containing sulfuric acid (OEM)**CLP Directive 1272/2008/EC:

GHS pictograms

**GHS05****Signal word****DANGER**

H314

Causes severe skin burns and eye damage.

P260D, P280sh, P301+330+331, P303+361+353, P304+340, P305+351+338, P501

Do not breathe vapours. Wear protective gloves/eye protection.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of contents/container to regulated waste treatment.

15.2 Chemical safety assessment

not necessary for these small amounts

SECTION 16: Other Information**16.1 List of H phrases**List of relevant H phrases

H314 Causes severe skin burns and eye damage.

16.2 Training Advice

Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.

16.3 Recommended Restriction on Use

Only for professional user.

Look about employee restrictions for young people

(f. ex. 94/33/EC or DE § 22 JArbSchG)!

Look about employee restrictions for pregnant women and nursing women

(f.ex. 92/85/EEC or DE §§ 4 und 5 MuSchRiV)!

An individual package of this product or test kit has a moderate hazardous potential.

**According to Regulation (EC) No 1907/2006****Productname: Standard columns for PCB-/Dioxin Analysis, P/N: 13375, 19512****16.4 Further Information**

LCTech GmbH provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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16.5 Sources of Key Data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS

Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress

TRGS 900, German engineering rules governing limits in air at work, updated February 2014

SUVA .CH, Limits in air at work 2009, revised on 01.2009

KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe
(Data Sheets of Hazardous Substances)

16.6 Revisions/UpdatesReason for Revision:

2 014-02 Corrected structure of sections acc. regulation 453/2010/EU, if necessary

2 014-04 Adaptation of regulation 487/2013/EU