



**According to Regulation (EC) No. 1907/2006 and 453/2010/EG
Version 1.4 Revision Date 01/03/2023**

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Carbon Columns for PCB- / Dioxin Analysis

Product No. 13811-S, 13811, 14090

REACH Registration Number A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Please contact the regional company representation in your country.

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

DE: Gemeinsames Giftinformationszentrum (GGIZ)
99089 Erfurt, Tel. +49 361 730730

Missing subsections are not relevant for the risk assessment of the product and may be omitted programmatically.



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SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Carcinogenicity (Category 2), H351

Specific target organ toxicity - repeated exposure, Category 2, Inhalation, H373

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Warning

Hazard statements

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

H351 Suspected of causing cancer.

Precautionary statements

P260 Do not breathe dust.

P281 Use personal protective equipment as required.

Supplemental Hazard Statements

none

Reduced labelling (≤ 125 ml)

Hazard pictograms



Signal word

Warning

2.3 Other hazards

None known.



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SECTION 3. Composition/information on ingredients

CAS-No. 68855-54-9
 EC-No. 272-489-0

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical Name (Concentration)

CAS-No.	Registration number	Classification
<i>Kieselguhr (contains free crystalline silicic acid) (<= 100 %)</i>		
68855-54-9	*	Specific target organ toxicity - repeated exposure, Category 2, H373

*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

CAS-No. 1333-86-4
 EC-No. 215-609-9

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Carbon black	Carc. 2; H351	-

SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation:

fresh air. Call in physician.

After skin contact:

wash off with plenty of water. Remove contaminated clothing. After eye contact: rinse out with plenty of water.

After swallowing:

make victim drink water (two glasses at most). Consult doctor if feeling unwell.



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4.2 Most important symptoms and effects, both acute and delayed

Pneumokoniosis (silicosis)

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

5.3 Advice for firefighters

Special protective equipment for firefighters

In the event of fire, wear self-contained breathing apparatus.



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SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Observe label precautions.

7.2 Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

Storage temperature: no restrictions.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Hygiene measures

Change contaminated clothing. Wash hands after working with substance.



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Eye/face protection

Safety glasses

Hand protection

full contact: Glove material: Nitrile rubber

Glove thickness: 0,11 mm

Break through time: > 480 min

splash contact: Glove material: Nitrile rubber

Glove thickness: 0,11 mm

Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet (>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 3 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.



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Environmental exposure controls

No special precautionary measures necessary.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	powder
Colour	black
Odour	odourless
Odour Threshold	not applicable
pH	4,0 - 11,0 at 50 g/l at 20 °C
Melting point	No information available.
Boiling point	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Vapour pressure	No information available.
Relative vapour density	No information available.
Relative density	No information available.
Water solubility	< 0,001 g/l at 20 °C
Partition coefficient: n- octanol/water	No information available.
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified als explosive.
Oxidizing properties	none

9.2 Other data

Ignition temperature	not combustible
Bulk density	300 kg/m ³

SECTION 10. Stability and reactivity



According to Regulation (EC) No. 1907/2006 and 453/2010/EG

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10.1 Reactivity

See section 10.3

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

no information available

10.4 Conditions to avoid

Do not heat over:290°C

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

no information available

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute inhalation toxicity

Symptoms: Chronic intoxication:, Pneumokoniosis (silicosis)

LD50 Oral - rat - male and female - > 8.000 mg/kg

(OECD Test Guideline 401)

LD50 Dermal - rabbit - > 3.000 mg/kg

Genotoxicity in vitro

Ames test

Result: negative

(Lit.)

Specific target organ toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

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Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.

Aspiration hazard

Carcinogenicity

Carcinogenicity - rat - Inhalation

Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors.

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Carbon black)

Based on available data the classification criteria are not met.

11.2 Further information

Quantitative data on the toxicity of this product are not available.

Further data:

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12. Ecological information**12.1 Toxicity**

Toxicity to fish LC50 - Danio rerio (zebra fish) - > 1.000 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - > 5.600 mg/l - 24 h (OECD Test Guideline 202)

Toxicity to algae static test EC50 - Desmodesmus subspicatus (green algae) - > 10.000 mg/l - 72 h (OECD Test Guideline 201).

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment



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PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Additional ecological information

We have no quantitative data concerning the ecological effects of this product. Further information on ecology

No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13. Disposal considerations

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14. Transport information Land transport (ADR/RID)

14.1 - 14.6 Not classified as dangerous in the meaning of transport regulations.

Inland waterway transport (ADN)

Not relevant

Air transport (IATA)

14.1 - 14.6 Not classified as dangerous in the meaning of transport regulations.

Sea transport (IMDG)

14.1 - 14.6 Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant



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SECTION 15. Regulatory information

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

EU regulations

Major Accident Hazard 96/82/EC

Legislation Directive 96/82/EC does not apply

Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

National legislation

Storage class 10 - 13

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.



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SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

- H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
- Carc. Carcinogenicity
- H351 Suspected of causing cancer.

Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

16.1 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. LCTech GmbH makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly LCTech GmbH will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.