



According to Directive 1907/2006/EC, Article 31
Version 1.1 Date: 01/03/2023

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

1.1 Product identifier

Product name: Evolution Aluminium Oxide Column for PCB- / Dioxin Analysis

Product number: 20087, 20324

CAS Number: 1344-28-1

EC-Number: 251-691-6

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

No further relevant information available.

1.3 Details of the supplier of the safety data sheet

Company: LCTech GmbH
Daimlerstr. 4
D 84419 Obertaufkirchen
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 730730

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

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
The substance is not classified according to the CLP regulation.

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008	Void
Hazard pictograms:	Void
Signal word	Void
Hazard statements	Void

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Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

SECTION 3: Composition/Information on Ingredients**3.1 Chemical characterisation: Substances**

CAS-No. Description: 1344-28-1 Aluminium oxide

Identification Number (s)

EC number: 215-691-6

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

No special measures required.

After inhalation:

Supply fresh air; consult doctor in case of complaints..

After skin contact:

Generally the product does not irritate the skin..

After eye contact:

Rinse opened eye for several minutes under running water.

After swallowing:

If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.



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SECTION 5: Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing agents:

Use fire-extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment:

No special measures required.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Not required.

6.2 Environmental precautions:

No special measures required.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

No special measures required.

Information about fire - and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage: 15-30 °C

Requirements to be met by storerooms and receptacles:

No special requirements.

Further information about storage conditions:



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7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure Controls/Personal Protection

Additional information about design of technical facilities:

No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

1344-28-1 Aluminium oxide

WEL Long-term value:: 10 * 4** mg/m³

*inhalable dust **respirable dust

Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

AtenschutzRespiratory protection:

Not required.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Not required.



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SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

General Information

Appearance	Form	Powder
	Colour	White
Odour		Indeterminate
Odour threshold		Not determined.
<u>pH-value</u>		Not applicable.
<u>Change in condition</u>		
Melting point/freezing point		Undetermined.
Initial boiling point and boiling range		Undetermined.
<u>Flash point:</u>		Not applicable.
<u>Flammability (solid, gas)</u>		Product is not flammable.
<u>Decomposition temperature:</u>		Not determined.
<u>Auto-ignition temperature:</u>		Not determined.
<u>Explosive properties:</u>		Product does not present an explosion hazard.
<u>Explosion limits:</u>	Lower:	Not determined.
	Upper:	Not determined.
<u>Vapour pressure:</u>		Not applicable.
<u>Density:</u>		Not determined.
<u>Relative density</u>		Not determined.
<u>Vapour density</u>		Not applicable.
<u>Evaporation rate</u>		Not applicable.
<u>Solubility in / Miscibility with</u>		
Wasser:		Not determined.
<u>Partition coefficient (n-octanol/water):</u>		Not determined.
<u>Viscosity:</u>	Dynamic:	Not applicable.
	Kinematic:	Not applicable.
<u>Solvent content:</u>	VOC (EC):	0,0 %
<u>Solids content:</u>		100,0 %

9.2 Other information

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No further relevant information available.

SECTION 10: Stability and Reactivity**10.1 Reactivity**

No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

No dangerous decomposition products known

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

Acute toxicity:

Based on available data, the classification criteria are not met.

Primary irritant effect:

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

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Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological Information**12.1 Toxicity**Aquatic toxicity:

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Additional ecological information:

General notes: Generally not hazardous for water

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.



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SECTION 14: Transport Information

14.1 UN-Number

ADR, ADN, IMDG, IATA Not regulated

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA Not regulated

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA
Class Not regulated

14.4 Packing group

ADR, IMDG, IATA Not regulated

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.
UN "Model Regulation": Not regulated

SECTION 15: Regulatory Information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I

Substance is not listed.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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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.

16.2 Abbreviations and acronyms

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
VOC:	Volatile Organic Compounds (USA, EU)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative