

SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

ZEOsphere CN**1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

CAS-No. 7631-86-9
EC-No. 231-545-4
REACH No. 01-2119379499-16-0036

Product code None.

Synonyms ZEOsphere 100 CN; ZEOsphere 120 CN

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

Use of the Substance/Preparation Chromatography

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification Zeochem AG
Seestrasse 108
CH-8707 Uetikon
Schweiz
Tel. +41 44 922 93 93
info@zeochem.ch

1.4. Emergency telephone number Tox-Zentrum Zürich : 145 / +41 44 251 51 51 [24h/7d]

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Version GHS 3

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC None.

Additional information For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements

Labelling according to Directives 67/548/EEC or 1999/45/EC

R-phrase(s) None.

S-phrase(s) None.

Hazardous component(s) which must be listed on the label None.

2.3. Other hazards Risk of dust explosion in fine crystalline powder form.

3. Composition/information on ingredients

Chemical characterization Synthetic amorphous silica surface modified

Components		CLP Classification	DSD/DPD Classification	Product identifier
Amorphous silica	75% - 90%			CAS-No.: 7631-86-9 EC-No.: 231-545-4 REACH No.: 01-2119379499-16-0036

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

Hazardous impurities None known.

4. First aid measures

4.1. Description of first aid measures

Inhalation	No special measures required.
Skin contact	Wash with water and soap as a precaution.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

4.2. Most important symptoms and effects, both acute and delayed None known.

4.3. Indication of any immediate medical attention and special treatment needed None known.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use dry chemical, CO ₂ , water spray or alcohol foam.
Extinguishing media which must not be used for safety reasons	High volume water jet.

5.2. Special hazards arising from the substance or mixture No data is available on the product itself.

5.3. Advice for firefighters

Special protective equipment for firefighters	Standard procedure for chemical fires.
Specific methods	No special measures required.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	No special measures required.
Advice for emergency responders	Handle in accordance with good industrial hygiene and safety practice.

6.2. Environmental precautions	No special environmental precautions required.
6.3. Methods and material for containment and cleaning up	Use mechanical handling equipment. After cleaning, flush away traces with water.

7. Handling and storage

7.1. Precautions for safe handling	Take precautionary measures against static discharges.
7.2. Conditions for safe storage, including any incompatibilities	Store at room temperature in the original container.
7.3. Specific end use(s)	Chromatography

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)	No data is available on the product itself.
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8.2. Exposure controls

Occupational exposure controls	General industrial hygiene practice. MAK (Maximale Arbeitsplatzkonzentration): 4 mg/m ³ .
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Personal protection equipment

<i>Respiratory protection</i>	No special protective equipment required. Breathing apparatus only if aerosol or dust is formed.
<i>Hand protection</i>	PVC disposable gloves
<i>Eye protection</i>	Avoid contact with eyes.
<i>Skin and body protection</i>	No special measures required.
Thermal hazards	No special measures required.
Environmental exposure controls	No special measures required.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Solid.
Colour	White.
Odour	Odorless
Odour Threshold	No information available.
pH:	5-8 (5% in H ₂ O)
Melting point/range:	>1000°C
Boiling point/range:	n.a.
Flash point:	flammable
Evaporation Rate:	n.a.
Flammability:	No information available.
Explosion limits:	No information available.
Vapour pressure:	n.a.
Vapor density:	n.a.
Relative density:	400-700 g/L
Water solubility:	practically insoluble
Partition coefficient (n-octanol/water):	n.a.
Autoignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity:	n.a.
Combustion/explosion hazards:	not hazardous
Oxidizing properties:	None

9.2. Other information

General Product Characteristics	No information available.
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10. Stability and reactivity

10.1. Reactivity	No information available.
10.2. Chemical stability	No decomposition if used as directed.
10.3. Possibility of hazardous reactions	No information available.
10.4. Conditions to avoid	Not required.
10.5. Incompatible materials	None.
10.6. Hazardous decomposition products	None under normal use.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Amorphous silica (CAS 7631-86-9) LD50/oral/rat = 10000 mg/kg. LCLO/inhalation/4h/rat = 139 mg/m ³ . LD50/dermal/rabbit > 5000 mg/kg.
Skin corrosion/irritation	No skin irritation.
Serious eye damage/eye irritation	Mild eye irritation.
Respiratory / Skin Sensitisation	None.
Carcinogenicity	Animal testing did not show any carcinogenic effects.
Germ cell mutagenicity	Animal testing did not show any mutagenic effects.
Reproductive toxicity	Animal testing did not show any hazardous effects.
Specific target organ toxicity (single exposure)	No data available.
Specific target organ toxicity (repeated exposure)	No data available.
Aspiration hazard	No data available.
Human experience	This product has no known adverse effect on human health.

12. Ecological information

12.1. Toxicity	Amorphous silica (CAS 7631-86-9) LC50/96h/fish > 10000 mg/l. EC50/24h/daphnia = 10000 mg/l. EC50/72h/algae > 10000 mg/l.
12.2. Persistence and degradability	No data available.
12.3. Bioaccumulative potential	Does not bioaccumulate. Accumulation in aquatic organisms is unlikely. Accumulation in terrestrial organisms is unlikely.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No information available.
12.6. Other adverse effects	No information available.

13. Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Offer rinsed packaging material to local recycling facilities.

14. Transport information

ADR/RID	Not required.
IMDG	Not required.
IATA	Not required.
Further Information	Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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

Regulatory Information	In accordance with Regulation (EC) No. 1272/2008 (GHS/CLP), the product does not need to be classified nor labelled. In accordance with Directive 1999/45/EC, the product does not need to be classified nor labelled.
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15.2. Chemical safety assessment	Not required.
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16. Other information

Revision Note	Safety datasheet sections which have been updated: 1, 7, 8.
Key or legend to abbreviations and acronyms	CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP) DSD/DPD: Classification according to EU Directives 67/548/EEC or 1999/45/EC MAK: Maximale Arbeitsplatzkonzentration.
Full text of phrases referred to under sections 2 and 3	None.
Further information	Not relevant.

Disclaimer

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. It is not to be considered a warranty or quality specification.