

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006  
(amended by Regulation (EU) 2015/830)

---

### Silica gel, surface modified

---

---

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

##### 1.1. Product identifier

<b>Product name</b>	Silica gel, surface modified
<b>CAS-No.</b>	7631-86-9
<b>EC-No.</b>	231-545-4
<b>REACH No.</b>	01-2119379499-16-0299
<b>Synonyms</b>	ZEObeads x y z, ZEOprep x y z, ZEOsphere x y z, ZEOsphere DRP x y z: x = amendment of the product designation by up to four numerals, optionally amended by up to two characters. y = amendment of the product designation by A, C, C4, C8, C18, CN, Diol, NH2, PHE, SAX, SCX or SH. z = optionally amended by NE and/or other characters.
<b>Product code</b>	None.

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

<b>Use of the Substance/Mixture</b>	Chromatography
-------------------------------------	----------------

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

<b>Company/Undertaking Identification</b>	Zeochem AG, <a href="http://www.zeochem.ch">www.zeochem.ch</a> Joweid 5, 8630 Rütli, Schweiz Tel.: +41 44 922 93 93 E-Mail: <a href="mailto:info@zeochem.ch">info@zeochem.ch</a>  Zeochem d.o.o. Zvornik Karakaj 229a 75400 Zvornik Bosnia and Hercegovina
---	--

OR [Zeochem d.o.o.]:  
Knoell NL BV, www.knoell.com  
Agro Business Park 75-83, 6708 PV Wageningen, The Netherlands  
Tel.: +49 621 718 85 80 / E-Mail: or-services@knoell.com

**1.4. Emergency telephone number** USA: 24 hr. Emergency Phone (Chemtrec US): 1-800-424-9300  
CH: Tox-Zentrum Zürich : 145 / +41 44 251 51 51 [24h/7d]

**Issuing date** 19.08.2019

**Version** V3 (Previous versions: V2)

---

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No. 1272/2008** The substance or mixture is not classified.

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

### **2.2. Label elements**

**Signal Word** None.

**Hazard Statements** None.

**Precautionary statements** None.

**Supplemental information** None.

**Product identifier** Amorphous silica, surface treated, CAS-No. 7631-86-9, EC-No. 231-545-4, REACH No. 01-2119379499-16-0299  
Water, CAS-No. 7732-18-5, EC-No. 231-791-2

**2.3. Other hazards** No dangerous ingredients according to Regulation (EC) No. 1272/2008. Risk of dust explosion in fine crystalline powder form.

---

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

### **3.2. Mixtures**

Synthetic amorphous silica surface modified

<b>Components</b>		<b>CLP Classification</b>	<b>Product identifier</b>
Amorphous silica, surface treated	> 98%		CAS-No.: 7631-86-9 EC-No.: 231-545-4 REACH No.: 01-2119379499-16-0299
Water	< 2%		CAS-No.: 7732-18-5 EC-No.: 231-791-2

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

**Hazardous impurities** None known.

---

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

### **4.1. Description of first aid measures**

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

---

## ***SECTION 5: Firefighting measures***

### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Use dry chemical, CO <sub>2</sub> , water spray or alcohol foam.
<b>Extinguishing media which must not be used for safety reasons</b>	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**

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

---

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

### **6.1. Personal precautions, protective equipment and emergency procedures**

<b>Advice for non-emergency personnel</b>	No special measures required.
<b>Advice for emergency responders</b>	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.

---

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

No special technical protective measures required.

**7.2. Conditions for safe storage, including any incompatibilities**

Store at room temperature in the original container. Take measures to prevent the build up of electrostatic charge.

**7.3. Specific end use(s)**

No information available.

---

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

**8.1. Control parameters**

**Exposure limit(s)**

No data is available on the product itself.

**8.2. Exposure controls**

**Appropriate engineering controls**

General industrial hygiene practice. MAK (Maximale Arbeitsplatzkonzentration): 4 mg/m<sup>3</sup>.

**Personal protection equipment**

*Respiratory protection*

No special protective equipment required. Breathing apparatus only if aerosol or dust is formed.

*Hand protection*

PVC disposable gloves

*Eye protection*

Avoid contact with eyes.

*Skin and body protection*

No special measures required.

*Thermal hazards*

No special measures required.

**Environmental exposure controls**

No special measures required.

---

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

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

<b>Appearance</b>	Solid.
<b>Colour</b>	White.
<b>Odour</b>	Odorless
<b>Odour Threshold</b>	Not determined.
<b>pH:</b>	5-8 (5% in H <sub>2</sub> O)
<b>Melting point/range:</b>	>1000°C
<b>Boiling point/range:</b>	Not determined.
<b>Flash point:</b>	Not determined.
<b>Evaporation Rate:</b>	Not determined.
<b>Flammability:</b>	Not determined.
<b>Explosion limits:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Vapor density:</b>	Not determined.
<b>Relative density:</b>	400-700 g/L
<b>Water solubility:</b>	practically insoluble
<b>Partition coefficient (n-octanol/water):</b>	n.a.
<b>Autoignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>Viscosity:</b>	Not determined.
<b>Explosive properties:</b>	Fine dust dispersed in air may ignite.
<b>Oxidising properties:</b>	None

### **9.2. Other information**

<b>General Product Characteristics</b>	No information available.
--	---------------------------

---

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

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

---

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

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

---

## **SECTION 12: Ecological information**

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

---

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

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

---

## **SECTION 14: Transport information**

<b>ADR/RID</b>	Not regulated.
<b>IMDG</b>	Not regulated.
<b>IATA</b>	Not regulated.
<b>Further Information</b>	Not classified as dangerous in the meaning of transport regulations.

---

## **SECTION 15: Regulatory information**

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

<b>Regulatory Information</b>	In accordance with Regulation (EC) No. 1272/2008, the product does not need to be classified nor labelled.
-------------------------------	--

<b>15.2. Chemical safety assessment</b>	Not required.
---	---------------

---

## **SECTION 16: Other information**

<b>Revision Note</b>	Safety datasheet sections which have been updated: 1.
<b>Key or legend to abbreviations and acronyms</b>	CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS) MAK: Occupational exposure limit.
<b>Full text of phrases referred to under sections 2 and 3</b>	None.
<b>Further information</b>	Not relevant.
<b>Disclaimer</b>	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.