

SAFETY DATA SHEET

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

Silica gel

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

1.1. Product identifier

Product name	Silica gel
CAS-No.	7631-86-9
EC-No.	231-545-4
REACH No.	01-2119379499-16-0299
Synonyms	Silicagel x, C-Gel C-x, ZEObeads x, ZEOprep x, ZEOsphere x: x = amendment of the product designation by up to three numerals, optionally amended by up to three characters.
Product code	None.

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

Use of the Substance/Mixture	Adsorbent Chromatography Desiccant
------------------------------	--

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification	Zeochem AG, www.zeochem.ch Joweid 5, 8630 Rütli, Schweiz Tel.: +41 44 922 93 93 E-Mail: info@zeochem.ch
	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.

In accordance with Regulation (EC) No. 1272/2008, the product does not need to be classified nor labelled.

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, CAS-No. 7631-86-9, EC-No. 231-545-4, REACH No. 01-2119379499-16-0299

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Synthetic amorphous silica

Components		CLP Classification	Product identifier
Amorphous silica	> 90 %		CAS-No.: 7631-86-9 EC-No.: 231-545-4 REACH No.: 01-2119379499-16-0299
Water	< 10 %		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

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 The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use dry chemical, CO₂, 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 The product is not flammable.

5.3. Advice for firefighters

Special protective equipment for firefighters Standard procedure for chemical fires.

Specific methods No special measures required.

SECTION 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.

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 precautionary measures against static discharges.
7.3. Specific end use(s)	No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)	Exposure limit(s): 4 mg/m ³ .
--------------------------	--

8.2. Exposure controls

Appropriate engineering controls	General industrial hygiene practice.
---	--------------------------------------

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.
<i>Thermal hazards</i>	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

Appearance	Solid.
Colour	White.
Odour	Odorless
Odour Threshold	Not determined.
pH:	5-8 (5% in H ₂ O)
Melting point/range:	>1000°C
Boiling point/range:	n.a.
Flash point:	does not flash
Evaporation Rate:	n.a.
Flammability:	Not determined.
Explosion limits:	Not determined.
Vapour pressure:	n.a.
Vapor density:	n.a.
Relative density:	400-800 g/L
Water solubility:	practically insoluble
Partition coefficient (n-octanol/water):	n.a.
Autoignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	n.a.
Explosive properties:	not hazardous
Oxidising properties:	None

9.2. Other information

General Product Characteristics No information available.

SECTION 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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	LD50/oral/rat = 10000 mg/kg. LCLO/inhalation/4h/rat = 139 mg/m ³ . LD50/dermal/rabbit > 5000 mg/kg. 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	No 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.

SECTION 12: Ecological information

12.1. Toxicity	LC50/96h/fish > 10000 mg/l. EC50/24h/daphnia = 10000 mg/l. EC50/72h/algae > 10000 mg/l. 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	This information is not available.
12.6. Other adverse effects	This information is not available.

SECTION 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.

SECTION 14: Transport information

ADR/RID	Not regulated.
IMDG	Not regulated.
IATA	Not regulated.
Further Information	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

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

15.2. Chemical safety assessment	Not required.
---	---------------

SECTION 16: Other information

Key or legend to abbreviations and acronyms	CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)
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.