

**SAFETY DATA SHEET**

according to Regulation (EU) No. 453/2010

**ZEOprep****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** ZEOprep 40; ZEOprep 60; ZEOprep 60 ACT; ZEOprep 60 ECO; ZEOprep 60 F; ZEOprep 60 HYD; ZEOprep 60 I; ZEOprep 60 ICN; ZEOprep 60 KV; ZEOprep 60 IST; ZEOprep L; ZEOprep 60 MN; ZEOprep 60 P; ZEOprep 60 W; ZEOprep 90; ZEOprep 90 T; ZEOprep 110; ZEOprep 110 RG

**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]

**Issuing date** 13.04.2015

**Version** GHS 3

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## 2. Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP)**

The substance or mixture is not classified.

**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

**Signal Word**

None.

**Hazard Statements**

None.

**Precautionary statements**

None.

**Additional advice**

None.

**GHS product identifier**

Amorphous silica, CAS-No. 7631-86-9, EC-No. 231-545-4, REACH No. 01-2119379499-16-0036  
Water, CAS-No. 7732-18-5, EC-No. 231-791-2

**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

No information available.

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## 3. Composition/information on ingredients

**Chemical characterization**

Synthetic amorphous silica

Components		Product identifier
Amorphous silica	> 90%	CAS-No.: 7631-86-9 EC-No.: 231-545-4 REACH No.: 01-2119379499-16-0036
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.

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## **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**      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.

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## **5. Firefighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media**      Use dry chemical, CO<sub>2</sub>, 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.

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## **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.

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## **7. Handling and storage**

**7.1. Precautions for safe handling**

No special technical protective measures required. 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

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## **8. Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limit(s)**

No data is available on the product itself.

**8.2. Exposure controls**

**Occupational exposure controls**

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

**Personal protection equipment**

*Respiratory protection*

No special protective equipment required. Respirator must be worn if exposed to dust.

*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.

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## 9. Physical and chemical properties

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

<b>Form</b>	Solid.
<b>Colour</b>	White.
<b>Odour</b>	Odorless
<b>Odour Threshold</b>	No information available.
<b>pH:</b>	5-8 (5% in H <sub>2</sub> O)
<b>Melting point/range:</b>	>1000°C
<b>Boiling point/range:</b>	n.a.
<b>Flash point:</b>	does not flash
<b>Evaporation Rate:</b>	n.a.
<b>Flammability:</b>	n.a.
<b>Explosion limits:</b>	n.a.
<b>Vapour pressure:</b>	n.a.
<b>Vapor density:</b>	n.a.
<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>	n.a.
<b>Decomposition temperature:</b>	n.a.
<b>Viscosity:</b>	n.a.
<b>Combustion/explosion hazards:</b>	not hazardous
<b>Oxidizing properties:</b>	None

### 9.2. Other information

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

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## 11. Toxicological information

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	<b>Amorphous silica (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>	No 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.

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## 12. Ecological information

<b>12.1. Toxicity</b>	<b>Amorphous silica (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.

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## **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.

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## **14. Transport information**

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

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## **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 (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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<b>15.2. Chemical safety assessment</b>	A Chemical Safety Assessment is not required for this substance.
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## **16. Other information**

<b>Revision Note</b>	Safety datasheet sections which have been updated: 1, 3, 7, 8.
<b>Key or legend to abbreviations and acronyms</b>	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.
<b>Full text of phrases referred to under sections 2 and 3</b>	None.
<b>Further information</b>	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.