SAFETY DATA SHEET

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

Zeolite silica-rich, powder

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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>Zeolite silica-rich, powder</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS-No.</strong></td>
<td>1318-02-1</td>
</tr>
<tr>
<td><strong>EC-No.</strong></td>
<td>930-985-0; 215-283-8</td>
</tr>
<tr>
<td><strong>REACH No.</strong></td>
<td>01-2119455853-31-0003</td>
</tr>
<tr>
<td><strong>Synonyms</strong></td>
<td>ZEOflair x:</td>
</tr>
<tr>
<td></td>
<td>x = amendment of the product designation by up to four numerals.</td>
</tr>
<tr>
<td></td>
<td>ZEOcat PZ-2/x:</td>
</tr>
<tr>
<td></td>
<td>x = amendment of the product designation by up to six characters.</td>
</tr>
<tr>
<td><strong>Product code</strong></td>
<td>None.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Use of the Substance/Mixture</th>
<th>Adsorbent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Catalyst</td>
</tr>
<tr>
<td></td>
<td>Desiccant</td>
</tr>
</tbody>
</table>

1.3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Joweid 5, 8630 Rüti, Schweiz</td>
<td>Tel.: +41 44 922 93 93</td>
</tr>
<tr>
<td>E-Mail: <a href="mailto:info@zeochem.ch">info@zeochem.ch</a></td>
<td></td>
</tr>
<tr>
<td>Only representative according to Art. 8 Regulation (EC) No 1907/2006:</td>
<td></td>
</tr>
<tr>
<td>Dr. Knoell Consult GmbH, <a href="http://www.knoell.com">www.knoell.com</a></td>
<td></td>
</tr>
<tr>
<td>Dynamostr. 19, 68165 Mannheim, Deutschland</td>
<td></td>
</tr>
<tr>
<td>Tel.: +49 621 718 85 80</td>
<td>E-Mail: <a href="mailto:or-services@knoell.com">or-services@knoell.com</a></td>
</tr>
</tbody>
</table>

1.4. Emergency telephone number

| Tox-Zentrum Zürich : 145 / +41 44 251 51 51 | [24h/7d] |

Issuing date

16.10.2018
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
None.

2.3. Other hazards
No dangerous ingredients according to Regulation (EC) No. 1272/2008. The activated product generates much heat in contact with water.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Components</th>
<th>CLP Classification</th>
<th>Product identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zeolite silica-rich</td>
<td>&gt; 90%</td>
<td>CAS-No.: 1318-02-1 EC-No.: 930-985-0, 215-283-8 REACH No.: 01-2119459853-31-0003</td>
</tr>
<tr>
<td>Water</td>
<td>&lt; 10%</td>
<td>CAS-No.: 7732-18-5 EC-No.: 231-791-2</td>
</tr>
</tbody>
</table>

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  None known.

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  No special measures required.
Extinguishing media which must not be used for safety reasons  None.

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.

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

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)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)

Total dust
Permissible exposure limit: 10 mg/m³.
Alveolar dust fraction:
Permissible exposure limit: 3 mg/m³.

8.2. Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protection equipment

Respiratory protection
No special protective equipment required.

Hand protection
DRY moleskin 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

Appearance  Powder.

Colour  Beige.

Odour  Odorless

Odour Threshold  Not determined.
pH: 9-11.5 (5% in H2O)
Melting point/range: > 400°C
Boiling point/range: Not determined.
Flash point: does not flash
Evaporation Rate: Not determined.
Flammability: Not determined.
Explosion limits: Not determined.
Vapour pressure: Not determined.
Vapor density: Not determined.
Relative density: 500-700 g/L
Water solubility: practically insoluble
Partition coefficient (n-octanol/water): n.a.
Autoignition temperature: Not determined.
Decomposition temperature: Not determined.
Viscosity: Not determined.
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 The activated product generates much heat in contact with water.
10.6. Hazardous decomposition products None under normal use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity No data available.
Skin corrosion/irritation No skin irritation.
Serious eye damage/eye irritation Slight 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.

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**SECTION 12: Ecological information**

12.1. Toxicity
No data available.

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.

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**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.

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**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

Revision Note

This data sheet contains changes from the previous version in section(s): 9

Key or legend to abbreviations and acronyms

CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)
PEL: Permissible Exposure Limit

Full text of phrases referred to under sections 2 and 3

None.

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.