Safety Data Sheet
according to the Global Harmonized System

cSmartCal, SmartCal

1. Identification of the substance / preparation and the company / undertaking

Commercial product name cSmartCal, SmartCal
Synonym Zeolite 3A, molecular sieve 3A
Recommended use Moisture analyzer reference substance.
Product No. cSmartCal: 30005791, 30005793
SmartCal: 30005790, 30005792
Supplier Mettler-Toledo AG
Laboratory & Weighing Solutions
Im Langacher
CH-8606 Greifensee
Switzerland
Phone: +41-44-944 22 11
Fax: +41-44-944 33 20
Emergency telephone number +41-44-251 51 51 (Tox Center, CH-8032 Zurich)
CAS No. 1318-02-1
Revision Date 13.10.2010
Number 1

2. Hazards identifications

The activated (totally dry) product evolves much heat on contact with water.
3. Composition / information on ingredients

Chemical characterization
Zeolite, crystalline, synthetic, non fibrous

<table>
<thead>
<tr>
<th>Components</th>
<th>Health hazards</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zeolite</td>
<td>75% - 90%</td>
<td>1318-02-1</td>
</tr>
<tr>
<td>Clay binder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quarz</td>
<td>1% - 2.5%</td>
<td>14808-60-7</td>
</tr>
</tbody>
</table>

4. First aid measures

Inhalation
No special measures required.

Skin contact
Wash with water and soap as 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.

Further information
This product is a desiccant and generates heat when it absorbs water.

5. Fire-fighting measures

Suitable extinguishing media
No special measures required.

Special protective equipment for firefighters
Standard procedure for chemical fires.

Specific methods
No special measures required.

6. Accidental release measures

Personal precautions
No special measures required.

Environmental precautions
No special environmental precautions required.

Methods for cleaning up
Use mechanical handling equipment. After cleaning, flush away traces with water.
7. Handling and storage

Handling
Take precautionary measures against static discharges.

Storage
Store at room temperature in the original container.

8. Exposure controls / personal protection

Exposure limit(s)
Total dust
Permissible exposure limit: 10 mg/m³.
Alveolar dust fraction
Permissible exposure limit: 3 mg/m³.

Occupational exposure 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.

9. Physical and chemical properties

Form
Pellets.

Colour
Beige.

Odour
Odourless

Physical and chemical properties
pH: 9.0 – 11.5 (in 5% solution)
Water solubility: insoluble
Fat solubility: insoluble
Bulk density 500 – 900 kg/m³.

10. Stability and reactivity

Stability
No decomposition if used as directed.

Materials to avoid
The activated (totally dry) product evolves much heat on contact with water.

Hazardous decomposition products
None under normal use.
11. Toxicological information

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Zeolite</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50/oral/rat</td>
<td>&gt; 10000 mg/kg.</td>
</tr>
<tr>
<td>LD50/dermal/rabbits</td>
<td>&gt; 2000 mg/kg.</td>
</tr>
<tr>
<td>LC50/inhalation/rat</td>
<td>&gt; 15 mg/L.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Local effects</th>
<th>Contact with eyes may cause irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long term toxicity</td>
<td>Negligible.</td>
</tr>
<tr>
<td>Sensitization</td>
<td>None.</td>
</tr>
<tr>
<td>Human experience</td>
<td>This product has no known adverse effect on human health.</td>
</tr>
</tbody>
</table>

12. Ecological information

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>EC50/48h/daphnia &gt; 1000 mg/L.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LC50/96h/fish &gt; 1800 mg/L.</td>
</tr>
</tbody>
</table>

| Bioaccumulative potential  | Does not bioaccumulate.         |

13. Disposal considerations

<table>
<thead>
<tr>
<th>Waste from residues / unused products</th>
<th>Dispose of in accordance with local regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contaminated packaging</td>
<td>Offer rinsed packaging material to local recycling facilities.</td>
</tr>
</tbody>
</table>

14. Transport information

| Further Information | Not classified as dangerous in the meaning of transport regulations. |

15. Regulatory information

<table>
<thead>
<tr>
<th>GHS-Classification</th>
<th>Zeolite, CAS-No. 1318-02-1, EC-No. 215-283-8.</th>
</tr>
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<tbody>
<tr>
<td>GHS product identifier</td>
<td>Clay binder Quarz, CAS-No. 14808-60-7, EC-No. 238-878-4</td>
</tr>
</tbody>
</table>

| Regulatory Information | In accordance with Regulation (EC) No. 1272/2008 (GHS/CLP), the product does not need to be classified nor labelled. |
16. Other information

Recommended use  Moisture analyzer reference substance.

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.