

# Safety Data Sheet

according to the Global Harmonized System

## cSmartCal, SmartCal

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

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

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### 2. Hazards identifications

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

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### 3. Composition / information on ingredients

**Chemical characterization** Zeolite, crystalline, synthetic, non fibrous

Components		Health hazards	CAS
Zeolite	75% - 90%		1318-02-1
Clay binder			
Quarz	1% - 2.5%		14808-60-7

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### 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.

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### 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.

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### 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.

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## 7. Handling and storage

<b>Handling</b>	Take precautionary measures against static discharges.
<b>Storage</b>	Store at room temperature in the original container.

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## 8. Exposure controls / personal protection

<b>Exposure limit(s)</b>	Total dust Permissible exposure limit: 10 mg/m <sup>3</sup> . Alveolar dust fraction Permissible exposure limit: 3 mg/m <sup>3</sup> .
<b>Occupational exposure controls</b>	General industrial hygiene practice.
<b>Personal protection equipment:</b>	
<b>Respiratory protection</b>	No special protective equipment required.
<b>Hand protection</b>	Dry moleskin gloves.
<b>Eye protection</b>	Avoid contact with eyes.

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## 9. Physical and chemical properties

<b>Form</b>	Pellets.
<b>Colour</b>	Beige.
<b>Odour</b>	Odourless
<b>Physical and chemical properties</b>	pH: 9.0 – 11.5 (in 5% solution) Water solubility: insoluble Fat solubility: insoluble Bulk density 500 – 900 kg/m <sup>3</sup> .

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## 10. Stability and reactivity

<b>Stability</b>	No decomposition if used as directed.
<b>Materials to avoid</b>	The activated (totally dry) product evolves much heat on contact with water.
<b>Hazardous decomposition products</b>	None under normal use.

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## 11. Toxicological information

<b>Acute toxicity</b>	<b>Zeolite</b> LD50/oral/rat > 10000 mg/kg. LD50/dermal/rabbits > 2000 mg/kg. LC50/inhalation/rat > 15 mg/L.
<b>Local effects</b>	Contact with eyes may cause irritation.
<b>Long term toxicity</b>	Negligible.
<b>Sensitization</b>	None.
<b>Human experience</b>	This product has no known adverse effect on human health.

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## 12. Ecological information

<b>Ecotoxicity</b>	EC50/48h/daphnia > 1000 mg/L. LC50/96h/fish > 1800 mg/L.
<b>Bioaccumulative potential</b>	Does not bioaccumulate.

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## 13. Disposal considerations

<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>Further Information</b>	Not classified as dangerous in the meaning of transport regulations.
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## 15. Regulatory information

<b>GHS-Classification</b> <b>GHS product identifier</b>	Zeolite, CAS-No. 1318-02-1, EC-No. 215-283-8. Clay binder Quarz, CAS-No. 14808-60-7, EC-No. 238-878-4
Regulatory Information	In accordance with Regulation (EC) No. 1272/2008 (GHS/CLP), the product does not need to be classified nor labelled.

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## 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.

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