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Safety Data Sheet

according to the Global Harmonized System

cSmartCal, SmartCal

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

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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

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

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 precautionsNo 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 protectionNo special protective equipment required.

Hand protection Gloves (SmartCal contains approx. 18% water and

therefore Zeolite is deactivated).

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

Acute toxicity Zeolite

LD50/oral/rat > 10000 mg/kg. LD50/dermal/rabbits > 2000 mg/kg. LC50/inhalation/rat > 15 mg/L.

Local effects Contact with eyes may cause irritation.

Long term toxicity Negligible.

Sensitization None.

Human experience This product has no known adverse effect on human

health.

12. Ecological information

Ecotoxicity EC50/48h/daphnia > 1000 mg/L.

LC50/96h/fish > 1800 mg/L.

Bioaccumulative potential Does not bioaccumulate.

13. Disposal considerations

Waste from residues / unused products

Dispose of in accordance with local regulations.

Contaminated packaging Offer rinsed packaging material to local recycling

facilitities.

14. Transport information

Further Information Not classified as dangerous in the meaning of transport

regulations.

15. Regulatory information

GHS-Classification

GHS product identifier 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.



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.

