

# MATERIAL SAFETY DATA SHEET

## (According to (EG) 1907/2006 (REACH))

Date of printing: 02.07.2014 reviewed on: 21.10.2009

### Dental Gypsum, Type 1- 5

Page: 1 / 2



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

##### **Product information**

Product names of dental gypsum:

Dr. Kühns, Articulation plaster, Mounting Stone, Non Plus Ultra, Velox, Alamo, Alamo S, Ehodit, Hinrizit, Hinrizit Speed, Laborit, Hinridur, Hinridur S, Ortho Plaster, Hinrizit E, Hinriplast N, Hinristone 20/22/24, Hinristone Speed, Japan-Stone, SH 074, Die Stone, Tru Stone, Base Stone, Base Stone FL, CAM-Stone N, Die Keen, HinriDie, Hinristone E, Hinrizit Super

##### **Manufacturer/supplier:**

ERNST HINRICHS GmbH

Borsigstrasse 1

DE-38644 Goslar, Germany

Tel. +49 (0) 53 21- 5 06 24, 5 06 25

Fax. +49 (0) 53 21 - 5 08 81

[info@hinrichs-dental.de](mailto:info@hinrichs-dental.de)

[www.hinrichs-dental.de](http://www.hinrichs-dental.de)

#### 2. Hazards identification

**Description of dangers:** not applicable

**Special guidelines concerning dangers to humans and the environment:** none

#### 3. Composition / information on ingredients

**Chemical properties (component substances):** Calcium sulphate hemihydrate

$\text{CaSO}_4 \cdot x \text{H}_2\text{O}$  ( $x = 1/2$ ) CAS-No. 7778-18-9

**Dangerous contents:** none

**Additional guidelines:** Calcium sulphate has not to be labelled according to EU-directives and the regulation on hazardous substances (Gefahrstoffverordnung, Germany)

CAS-No.	chemical formula	content	limit concentration in the air
7778-18-9	$\text{CaSO}_4$	> 85 %	MAK value* 6 mg / m <sup>3</sup>

\*maximum admissible concentrations at the workplace ( TRGS 900 / Germany )

#### 4. First-aid measures

No particular measures required.

**If substance has been swallowed:** drink plenty of water and consult doctor.

**If eye contact:** Wash out with plenty of water and consult doctor

#### 5. Fire-fighting measures

**Suitable quenching agents:** All suitable quenching agents, product itself is not combustible.

**Unsuitable quenching agents:** none

**Particular danger caused by material, its combustion products or gases produced:** none

**Special protective equipment:** none

#### 6. Accidental release measures

**Procedure for cleaning / absorption:** absorb mechanically, take up in a dry state

#### 7. Handling and storage

**Handling:** No particular measures required if used correctly.

**Storage:** Store in a dry place. Storage class VCI 13 / non-combustible solid substance

#### 8. Exposure controls/personal protection

**Components with work-place related limits to be monitored**

CAS-No.	chemical formula	limit (TRGS 900, Germany)
7778-18-9	$\text{CaSO}_4$	MAK value 6 mg/m

**Personal protective equipment:** Measures for general protection and hygiene

# MATERIAL SAFETY DATA SHEET

## (According to (EG) 1907/2006 (REACH))

Date of printing: 02.07.2014 reviewed on: 21.10.2009



### Dental Gypsum, Type 1- 5

Page: 2 / 2

**Respiratory protection:** Maintain the general maximum admissible concentration in the work place ( $6 \text{ mg/m}^3$ ). In case of strong dust emission wear respiratory filters P1 or FFP1

#### 9. Physical and chemical properties

<b>Form:</b>	Powder	<b>Colour:</b>	white or coloured
<b>Odour:</b>	odourless	<b>Change of state:</b>	not applicable

Thermal decomposition of gypsum:

into  $\text{CaSO}_4$  and  $\text{H}_2\text{O}$  above approx.  $140^\circ\text{C}$  (413 K)  
into  $\text{CaO}$  and  $\text{SO}_3$  above approx.  $1000^\circ\text{C}$  (1273 K)

<b>Flammability:</b>	not applicable	<b>Ignition temperature:</b>	not applicable
<b>Spontaneous ignition:</b>	not applicable	<b>Danger of explosion:</b>	not applicable
<b>Oxidizing properties:</b>	none	<b>Vapour pressure:</b>	not applicable
<b>Density:</b>	$\text{CaSO}_4 \cdot x \text{H}_2\text{O}$ ( $x = 1/2$ )	/	approx. 2,6 – 2,8 $\text{g/cm}^3$
<b>Solubility:</b>	approx. 7-9 g/l		
<b>pH value:</b>	neutral		
<b>Remark:</b>	Product is not combustible.		

#### 10. Stability and reactivity

**Conditions to be avoided:** no dangerous reactions are known to occur

**Substances to be avoided:** none known

**Dangerous products of decomposition:** none

#### 11. Toxicological information

**Acute toxicity:** not toxic

#### 12. Ecological information

To date product has not been known to cause detrimental eco-toxic effects.

#### 13. Disposal considerations

**Product Dentalhartgips:** waste disposal No.: 101206 (European Waste Catalogue)

**Contaminated packaging:** Contaminated containers: contact manufacturer. Contaminated bags or other packaging should ideally be emptied; it then can be recycled after having been decontaminated.

#### 14. Transport information

Not regulated by national or international transportation regulations.

#### 15. Regulatory information

**Labelling according to EU-directives:** Calcium sulphate is not to be labelled according to directive 67/ 548 EEC (adapted to technical progress by directive 98/98/EC). Preparation is not to be labelled according to directive 88/379/EEC (adapted to technical progress by directive 1999/45/EC).

#### **National regulations**

Germany:

Calcium sulphate is not to be labelled by the regulation on hazardous substances (GefStoffV).

TRGS 900:  $\text{CaSO}_4$  MAK value =  $6 \text{ mg/m}^3$

Calcium sulphate: Water pollution class (WGK) = 1

Code 325, listed substance VwVwS, 17.05.1999 (BAnz. 98a, 29.05.1999)

#### 16. Other information

All informations based on our last knowlegde and discribed the product only with regard to the safety requests.