

# MATERIAL SAFETY DATA SHEET (According to 91/155 EC)

Products: Dr. Kühns Impressions Plaster, Articulation Plaster, Mounting Stone

data for printing: 15.08.03

reviewed on: 17.09.02

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

### **Product information**

Dr. Kühns Impressions Plaster, Articulation Plaster , Mounting Stone

### **Manufacturer/supplier**

ERNST HINRICHS GMBH

Dental and gypsum products

Borsigstrasse 1

D-38644 Goslar

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

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## **2. 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	$\text{CaSO}_4$	> 99 %	MAK value* 6 mg / m <sup>3</sup>

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

## **3. Hazards identification**

**Description of dangers:** not applicable

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

## **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

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## 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	CaSO <sub>4</sub>	MAK value 6 mg/m <sup>3</sup>

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

**Respiratory protection:** Maintain the general maximum admissible concentration in the work place (6 mg/m<sup>3</sup>). 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 CaSO<sub>4</sub> and H<sub>2</sub>O above approx. 140°C (413 K)

into CaO and SO<sub>3</sub> above approx. 1000°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>	CaSO <sub>4</sub> · x H <sub>2</sub> O ( x = <sup>1/2</sup> )	/	approx. 2,6 g/cm <sup>3</sup>
<b>Solubility:</b>	approx. 2 g/l		
<b>pH value:</b>	5 – 7		
<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.

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## **13. Disposal considerations**

**Product Impression Plaster / Articulation plaster:** 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 93/18/EEC).

### **National regulations**

Germany:

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

TRGS 900: CaSO<sub>4</sub>

MAK value = 6 mg/m<sup>3</sup>

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.**