

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

Products: **Hinridur S**

data for printing: 15.08.03

reviewd on: 07.08.00

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

Product information:

Product name of synthetic model hard stone: **Hinridur S**

Manufacturer/supplier:

ERNST HINRICHS GMBH

Dental and gypsum products

Borsigstrasse 1

D-38644 Goslar

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

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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	CaSO_4	> 99 %	MAK value* 6 mg / m ³

*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 ₄	MAK value 6 mg/m ³

Personal protective equipment: Measures for general protection and hygiene

Respiratory protection: Maintain the general maximum admissible concentration in the work place (6 mg/m³). In case of strong dust emission wear respiratory filters P1 or FFP1

9. Physical and chemical properties

Form:	Powder	Colour:	white or coloured
Odour:	odourless	Change of state:	not applicable

Thermal decomposition of gypsum:

into CaSO₄ and H₂O above approx. 140°C (413 K)

into CaO and SO₃ above approx. 1000°C (1273 K)

Flammability:	not applicable	Ignition temperature:	not applicable
Spontaneous ignition:	not applicable	Danger of explosion:	not applicable
Oxidizing properties:	none	Vapour pressure:	not applicable
Density:	CaSO ₄ · x H ₂ O (x =1/2) /		approx. 2,6 g/cm ³
Solubility:	approx. 2 g/l		
pH value:	5 – 7		
Remark:	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 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 93/18/EEC).

National regulations

Germany:

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

TRGS 900: CaSO₄

MAK value = 6 mg/m³

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.