

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

Date of printing: 13.07.2009

reviewed on: 29.05.2009



ERNST HINRICHS GmbH
Dental- und Gipspräparate

Aluminium oxide

Page: 1 / 2

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

Product information

Product name: **Aluminium Oxide**

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

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

eMail: info@hinrichs-dental.de

2. Composition / information on ingredients

Chemical properties (component substances):

Aluminium Oxide Al_2O_3 Alpha-Alumina, approx. 99,7 %, pure white

Dangerous contents: none

Additional guidelines: none

3. Hazards identification

Description of dangers : not applicable

Special guidelines concerning dangers to humans and the environment : none

4. First-aid measures

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

If eye contact : Can lead to irritations, wash out with plenty of water and consult doctor

If skin contact: Rinse skin with plenty of water and soap.

Respiration: Can lead to cough and can make you breathe more difficult.

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: Avoid dust and deposit.

Storage: Store in a dry place.

8. Exposure controls/personal protection

Components with work-place related limits: none

Personal protective equipment:

- **eyes:** protection glasses

- **hands:** protection gloves

- **respiratory protection:** respiratory filter, for example DIN 3181 – P1

9. Physical and chemical properties

Form: Powder

Colour: white

Odour: odourless

Change of state: not applicable

flammability: not applicable

Ignition temperature: not applicable

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

Date of printing: 13.07.2009

reviewed on: 29.05.2009



ERNST HINRICHS GmbH
Dental- und Gipspräparate

Aluminium oxide

Page: 2 / 2

Spontaneous ignition:	not applicable	Danger of explosion:	not applicable
Oxidizing properties:	none	Vapour pressure:	not applicable
Density:	approx. 3,9 – 4,0 g/cm ³		
Melting point:	2.053°C		
Solubility:	not applicable		
pH value:	3 – 4 according to DIN/EN 12111		

10. Stability and reactivity

not applicable

11. Toxicological information

Acute toxicity: not toxic

12. Ecological information

Not available until now.

13. Disposal considerations

Can be disposed of with domestic garbage according to your regional regulations.

14. Transport information

Not regulated by national or international transportation regulations. No storage near to food.

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: As aluminium oxide is not soluble in water, you can assume that it is not endangering water. Separation occurs at every filtration and sedimentation process.

16. Other information

All information based on our last knowlegde and discribed the product only with regard to the safety requests . It shall only help to find suitable safety measures.