

# 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

## Pumice

Page: 1 / 2

### 1. Identification of the Substance / Preparation and Company:

Identification of the substance or preparation:

Commercial product name: Pumice  
Company / Manufacturer: ERNST HINRICHS GmbH  
Borsigstr. 1  
D - 38644 Goslar  
Tel.: +49 (0) 53 21 / 5 06 24  
Fax: +49 (0) 53 21 / 5 08 81  
info@hinrichs-dental.de  
www.hinrichs-dental.de

### 2. Composition / Information on Ingredients:

Chemical nature: Natural complexe silicate, mainly consisting of silicon dioxide (SiO<sub>2</sub>) which contains dissolved oxides of various elements. CAS 1332 – 09 - 8

### 3. Hazards Identification:

Inhalation: Critical hazards to man and the environment: none

### 4. First aid measures:

- 4.1 Inhalation: No danger to health known under normal industrial use. In case of inhalation of dust keep patient calm, remove to fresh air summon medical help.
- 4.2 Eyes: On contact with dust wash effected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
- 4.3 Ingestion: harmless

### 5. Fire Fighting measures:

No hazard of fire

### 6. Accidental release measures:

- 6.1 Personal Precautions: none
- 6.2 Environmental precautions: none
- 6.3 Methods for cleaning up: sweep / shovel up

### 7. Handling and Storage:

- 7.1 Handling: Store in dry place, protect against moisture, prevent formation of dust.
- 7.2 Storage: Keep in dry place, keep containers sealed, protect against moisture (absorption capacity will be lowered).

### 8. Exposure controls / Personal protection:

Technical plant: Additional information on the lay-out of technical plant (see 7)

Personal protective equipment: dust mask

Respiratory protection: dust mask

Hand protection: Protective gloves, if skin fiction occurs under direct contact with the product.

Eye protection: Use goggles if a strong formation of dust cannot be avoided.

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Page: 2 / 2

### 9. Physical and chemical properties:

Form:	solid substance in various forms / powder
Colour:	light grey
Odour:	Odourless
pH-Value	7,5 – 8,0
Melting Point:	1.500 °C
Thermal decomposition:	---
Combustibility:	non inflammable
Explosions hazards	none
Fire promoting properties:	None
Density:	2.313 – 2.350 g / ml
Bulk density:	400 – 900 g / ml
Solubility in water:	solubility in water
Solubility in other solvents:	fully soluble only in hydrofluoric acid

### 10. Stability and Reactivity:

Hazardous Reaction: none

### 11. Toxicological Information:

The product is harmless and does not produce allergic or narcotic reactions.

Inhalation: Due to its amorphous structure Pumice stone does not effect silicosis, protection against dust is necessary however.

### 12. Ecological Information:

As natural and inactive products the Pumice stone pose no risk to the environment. They are possessing neither a BSB nor a CBS value.

Water hazard class (Germany): 1

### 13. Disposal Considerations:

Must be disposed of according to local regulations and considered as an inert raw material / mineral not harmful to the environment.

### 14. Transport Information:

Not classified as hazardous under transport regulations.

### 15. Regulatory Information:

15.1 Not subject to labelling in accordance with EEC directives with risk symbols or safety phrases.

### 16. Further Information:

Due to its amorphous structure Pumice stone are not effecting silicosis. Protection against dust is necessary however. Inhalation of dust has to be avoided. Thus we recommend to observe and follow the standards of TLV and A.C.G.I.H. 1977, note EH / 76. The information contained herein is based on the present state of our knowledge and therefore does not guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations