



Pumice

1. Identification of the Substance / Preparation and Company:

- 1.1 Identification of the substance or preparation:
 Commercial product name: Pumice
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 Relevant identified uses: Natural abrasive
- 1.3 Manufacturer/Supplier: ERNST HINRICHS Dental GmbH
 Street / mailbox: Borsigstr. 1
 Country code. / postal code / city: D - 38644 Goslar
 Phone: 0 53 21 / 5 06 24
 Fax: 0 53 21 / 5 08 81
 E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de
 Further information obtainable from: ERNST HINRICHS Dental GmbH
- 1.4 Emergency telephone number
 ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

2. Hazard identification

- 2.1 This product may contain trace amounts of crystalline silica. Att: GHS info
 Decree EG No 1272/2008: No dangerous substance.
 Decree (67458/EWG , 1999 /45 EG): No dangerous substance.
 Hazards not otherwise classified (HNOC) or not covered by GHS: None.

3. Composition Information

- 3.1 Other principal inert components: Complex silicates of Al, K, Na, Fe, Ca, Mg, Ti
 Chemical identity, major components: amorphous Na-Aluminium Silicate
 Pumice volcanic glass CAS 1332-09-8 Health 0-1 Flammability 0 Reactivity 0.
 Personal protection : Use approved dust mask, goggles to prevent irritation.

4. First aid measures:

- 4.1 Description of first aid measures
 General advice: Consult a physician; show this safety data sheet to the doctor in attendance. If inhaled, move person into fresh air and away from the dust - may contain crystalline particles - and consult a physician. In case of eye contact, flush eyes with sufficient water at least for 15 min. Avoid friction, consult an eye specialist in necessary. In case of skin contacts, use water, do avoid abrasive frictions.
- 4.2 Indication of any medical attention and special treatment: None.

5. Fire and Explosion Hazard Data

- 5.1 Extinguishing media: Not Flammable or Combustible.
 Use water spray, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture: Potential of respirable dust - may contain crystalline particles.
 Advice for firefighters, Wear self-contained breathing apparatus for fighting fire if necessary and avoid breathing dust.

6. Accidental release measures:

Sweep or Vacuum up all spillage and place in suitable container.

7. Handling and Storage:

- 7.1 Precautions for safe handling: Store in dry place protect against moisture prevent formation of dust. Keep in dry place, keep containers sealed protect against moisture.



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7.2 Storage class 13: no dangerous products

8. Exposure controls / Personal protection:

- 8.1 Control Parameters
 Pumice CAS: 1332-09-8 OSHA PEL mg /m3 15 total dust
 ACGIH TLV mg/m3 10 NIOSH REL mg/m3 10 total dust
- 8.2 Exposure controls: Appropriate engineering controls.
 Handle in accordance with good industrial hygiene and safety practices.
- Emergency Overview: Pumice is an odourless white or greyish mineral that ranges from pebble to granular powder.
- 8.3 Potential Health Effects
 Contact can cause irritation to eyes, skin, and respiratory system.
- Eyes: Contact can cause mild irritation of the eyes.
 Skin: Contact can cause mild irritation of the skin.
 Ingestion: Can cause mild irritation of gastrointestinal tract if swallowed.
 Personal protective equipment: Dust mask.
 Respiratory protection: Dust mask.
 Skin- protection : Protective gloves, if skin friction occurs under direct contact with the product.
 Eye protection: Goggles if a strong contact formation of dust cannot be avoided.
- 8.4 Potential Environmental Effects: Contact Medical Centres, may aggravate disorders of the eye, skin, gastrointestinal respiratory system.
 Pumice is an inert natural mineral.

9. Physical and chemical properties:

- 9.1 Information on basic physical and chemical properties
- Appearance: Solid , granular or powder
 Odour: Odourless
 p-H: 7 – 8
 Colour: Light grey
 Form: Polyhedral
 Density: 2.360-2.400 g / cm 3 18-22 oC
 Bulk Density: 350 – 900 g / L
 Melting point: - 1.200 o C
 Thermal decomposition: None.
 Combustibility: Non inflammable.
 Explosion hazard: None.
 Oxidizing properties: None.
 Evaporation rate: None.
 Fire promoting: Not inflammable , not explosive, not combustible.
 Solubility in water: Insoluble.
 Solubility in other: Soluble in fluoric acid / hydrofluoric acid.
 Hardness: 5-6 Mohs.
 Refractive index: 1,5.

10. Stability and Reactivity:

- Reactivity: Non-reactive.
 Chemical Stability: Stable under recommended use and storage conditions.
 Possibility of hazardous reactions: None.
 Conditions to avoid: Avoid contact with Hydrofluoric acid.
 Incompatible materials: Strong acid, strong bases, hydrogen fluoride.

11. Toxicological Information:

- 11.1 Information of toxicological effects
 Acute toxicity: No data available



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Inhalation:	Pumice has an amorphous structure however may contain trace amounts of free crystalline silica follow protections prescriptions acc. SECTION XIII.
Dermal:	No data available.
Skin corrosion:	No corrosion, possible mild irritation.
Serious eye damage/ irritation:	Avoid dust (nuisance).
Respiratory or skin sensitization:	No data available.
Germ cell mutagenicity:	No data available.
Rat:	An LD50 of 6450 mg/kg (rat oral) has been identified for this product Pumice is not listed by MSHA, OSHA, or IARC as a carcinogen.
Reproductive toxicity:	No data available.
Specific target organ toxicity:	No data available.
Aspiration hazard:	No data available.

12. Ecological Information:

Toxicity - Persistence and degradability No data available.
 - Bioaccumulative potential - Mobility in soil – Results of PBT and vPvB assessment - other adverse effects all:

13. Disposal Considerations:

Measures should be taken to prevent dust generation during disposal. Dispose as non – toxic waste in an approved landfill in accordance with federal, state, and local regulations.

14. Transport Information:

Pumice is not classified as a hazardous material by REACH ecc and is not regulated. Symbols R + S is not required as ADR/RID and GGVS /GGVE .

15. Regulatory Information:

Not subject to labelling in accordance with the eec directives with symbols risk – or safety phrases. Pumice products are natural minerals and thus are explicitly exempted from regulations and evaluations.

16. Further Information:

The above mentioned information according to the MSDS only refers to the application of Pumice Stone from our production without additional products / substances from other sources. The information is based on the current state of our knowledge. We cannot give a guarantee with regard to all aspects concerning the application, however therefore it is due to the responsibility of the user to make sure the due application for own special purposes.