

Safety data sheet according to EC Directive 2001/58/EC

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

- 1.1 Trade name: **priti® multidisc ZrO₂/ priti® multibloc ZrO₂** blanks, discs or sticks
- 1.2 Description: Zirconium oxide ceramic blanks for the production of crowns, bridges, frameworks, attachments or abutments.
- 1.3 Manufacturer/supplier: pritidenta® GmbH
Meisenweg 37
70771 Leinfelden-Echterdingen
Germany
Tel. +49 (0) 711 320656 0
- 1.4 Emergency information: Berlin Poison Control Centre (Giftnotrufzentrale Berlin):
Telephone (24 hours) 030 19240 (+49 30 19240)

2. Composition/information on ingredients

Description of chemical characterization:

<u>Composition</u>	<u>Molecular formula</u>	<u>CAS no.</u>	<u>EINECS no.</u>	<u>Weight percent.</u>
Zirconium dioxide (+hafnium oxide +yttrium oxide)	ZrO ₂ /HfO ₂ /Y ₂ O ₃	1314-23-4	215-222-7	> 99
Hafnium oxide	HfO ₂	12055-23-1	235-013-2	< 5
Yttrium oxide	Y ₂ O ₃	1314-36-9	215-233-5	4.5–10
Aluminum oxide	Al ₂ O ₃	1344-28-1	215-691-6	< 0.5
Other oxides	-	-	-	< 0.5

3. Hazards identification

- 3.1 Indication of danger: Not dangerous as per Directive 99/45/EC
- 3.2 Hazard statements for humans and the environment: None
- 3.3. Additional information: Do not inhale dust. Direct contact with grinding dust can cause skin and eye irritation.

4. First aid measures

- 4.1 After inhalation: Seek fresh air.
- 4.2. After skin contact: If the grinding dust comes into contact with skin, wash thoroughly with warm water and soap.
- 4.3 After eye contact: Carefully wash eyes with plenty of clean, cold water. If irritation persists, consult a doctor.
- 4.4. After swallowing: No specific measures known; contact a doctor in case of medical complaints.

5. Fire-fighting measures

- 5.1 Suitable extinguishing media: Use fire extinguishing measures suited to the environment.
- 5.2 Unsuitable extinguishing media: Not known.
- 5.3 Special hazards: Not known.
- 5.4 Special protective equipment: No special measures required.

6. Accidental release measures

- 6.1 Personal protective measures: Not required.
- 6.2 Environmental protective measures: Collect mechanically and place in suitable containers for disposal.
- 6.3 Methods for cleaning up/collection: Special procedures not required.

7. Handling and storage

7.1 Handling: This product must only be handled by trained staff. It must be ensured that:

- Dust is prevented from forming and being deposited.
- All contact with moisture (e.g. wet hands) is avoided.
- Sufficient ventilation and suitable extraction is available.

7.2 Storage: It must be ensured that the blanks:

- Are stored in the original packaging.
- Do not come into contact with fluids.
- Are not exposed to impacts or vibration.
- Are not soiled.
- Are stored between 5°C and 50°C.

7.3 Use: See operating manual.

8. Exposure controls/personal protection

- 8.1 Exposure limit values: Not applicable in normal use.
- 8.2 Exposure control measures: Not applicable in normal use.
- 8.3 Personal protective equipment:
- Dust formation: A respirator is recommended for grinding work.
- Hand protection: Not required.
- Eye protection: Wear safety glasses for grinding work.
- Body protection: Not required.

9. Physical and chemical properties

9.1 Appearance:	Industrially manufactured solid, white/tooth color.
9.2: Physical state	Solid.
9.3 Odor:	Odorless.
9.4 Melting point:	Not applicable.
9.5 Boiling point:	Not applicable.
9.6 Flashpoint:	Not applicable.
9.7 Relative density:	< 2.98 g/cm ³
9.8 Solubility:	Insoluble in water.

This product is not spontaneously flammable and not explosive.

10. Stability and reactivity

10.1 Conditions to avoid:	Not known.
10.2 Materials to avoid:	Not known.
10.3 Hazardous decomposition products:	No hazardous reactions known.

11. Toxicological information

11.1 Testing of toxicological effects

Partially-yttrium-oxide-stabilized zirconium oxide (3Y-TZP) has no cytotoxic potential, causes no allergic sensitization and is biocompatible.

11.2 Practical experience

Breathing dust can cause respiratory tract irritation.
Eyes may become irritated through mechanical action (dust).

12. Ecological information

12.1 Ecotoxicity:	When handled and used correctly, no ecological problems are to be expected.
12.2 Mobility:	Not applicable.
12.3 Persistence and degradability:	Not applicable.
12.4 Bioaccumulative potential:	Not known.
12.5 Other adverse effects:	Not known.

13. Disposal considerations

13.1 Product

Dispose of residual material in accordance with local official regulations. European Waste Catalogue: 06 04 01 wastes containing metal oxides/metal.

14. Transport information

14.1 Information	Description
UN number:	Not documented.
Class:	Not documented.
Proper shipping name:	Not documented.
Packing Group:	Not documented.
Marine pollutant:	Not documented.
Other applicable information:	No special transport precautions.
Note: Fragile product – use sturdy packaging with soft padding.	

15. Regulatory information

15.1 Labeling	
Label	Description
Symbols:	CE label 0483, see operating manual.
R-phrases:	None.
S-phrases:	S 22 Do not inhale dust. S 25 Avoid contact with eyes. S 29 Do not empty into drains.
Special labeling:	Batch number/ inspection certificate no.
15.2 National regulatory information:	
Regulation	Description
Information on occupational restrictions:	Not applicable.
German Major Accident Ordinance (Störfallverordnung):	Not applicable.
Classification under the German Occupational Health and Safety Ordinance (BetrSichV):	Not applicable.
German Technical Instructions: Air Quality Control:	Not applicable. Not applicable.
German water hazard class (Wassergefährdungsklasse):	Not documented – not soluble in water. No labeling required under the German Hazardous Substances Ordinance (GefStoffV).
Information as per Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC Directive):	Not applicable.
Other regulatory information:	Not applicable.
Restrictions and prohibition ordinances:	Not applicable.

16. Other information

This information is based on current knowledge and experience. This safety data sheet describes products in terms of safety requirements. The information does not represent a guarantee of product properties and does not give rise to a contractual legal relationship.