



1. Substance / Preparation and company name

Product name	Zfx™ ziRoll
Description	Ceramic beads (yttria stabilized zirconia)
Use	Auxiliary media for sintering
Company name	Zfx GmbH Kopernikusstraße 15 85221 Dachau Deutschland Tel. +49 (0) 8131 / 33 244 - 0 Fax +49 (0) 8131 / 33 244 - 10 info@zfx-dental.com www.zfx-dental.com



2. Hazards identification

This product is an article and is not classified as hazardous according to directive 1999/45/EC.

3. Composition / Information on ingredients

The chemical composition for the beads is given below:

Synonyms	CAS no.	EINECS no.	Concentration	Molecular formula
Zirconia	1314-23-4	215-227-2	90 - 95 %	ZrO ₂
Yttrium oxide	1314-36-9	215-233-5	3 - 7 %	Y ₂ O ₃

4. First aid measures

Inhalation	Not relevant
Skin contact	In case of irritation contact physician.
Eye contact	May be abrasive through friction. Treat as a particle in the eye, and rinse abundantly with water. If necessary contact eye specialist.
Ingestion	Contact physician
Information to physician	Not available

5. Fire fighting measures

This product is not combustible or explosive. It is compatible with all standard fire-fighting methods.



6. Accidental release measures

Risk of slipping if the product is spilled on the floor. Isolate the area and sweep the floor by vacuum in order to collect the beads to avoid slipping on the beads.

7. Handling and storage

- × Wear eye protectors during handling.
- × Heavy material, respect safety rules in case of stacking.
- × Use safety shoes during handling.
- × For further information see also section N° 8.

8. Exposure control and personal protective equipment

8.1 Occupational exposure limit values and / or biological limit values	Not applicable. Because of large size distribution, handling this product should not generate dust.
8.2. Exposure controls	
8.2.1 Occupational exposure control	General protection: Provide for ventilation of the premises Eye protection: Use safety glasses
8.2.2 Environmental exposure control	Comply with applicable local regulation. Depending on the type of application, products after use may contain other chemicals on their surface. For specific application check rules on a case by case basis.

9. Physical and chemical properties

Aspect	Bead of 0.4 to 0.6 mm diameter should not generate dust.
Color	White
Melting point	2950 K
Bulk density	3.6 g/cm ³
Mass density	6.0 g/cm ³
Water soluble	Nil at ambient temperature.



10. Stability and reactivity

Stable at typical use conditions.

11. Toxicological information

No toxicological effects are known.

12. Ecological information

Ecotoxicity	No data available
Mobility	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Results of PBT assessment	Not relevant
Other adverse effects	Not known

13. Disposal considerations

Please consult national laws or local regulations in force for landfill. See also section 8.2.2.

14. Transport information

No special precautions are required.

15. Regulatory information

No R and S phrases. The product is not subject to specific provisions in relation to protection of the public or the environment at the European Community level.

16. Other information

No other information.