

MATERIAL SAFETY DATA SHEET

Besmile Zirconia Blanks

Section 1: Product and Company Identification

Product Names(S): Besmile Zirconia Blanks (,HT/ST/SHT/TT)

Manufacturer: Chengdu Besmile Biotechnology Co., Ltd
No.1666,Cheng long road, ED-ZONE
Sichuan, China

Emergency Telephone: 800243-2000

Fax No.:

Revised: 1/1/23

Product Use: To facilitate the manufacture of dental prostheses in the dental laboratory

Limitations: For dental lab use only

Section 2: Chemical Composition/Information on Ingredients

	ZrO ₂ (Zirconium Oxide)%	Y ₂ O ₃ (Yttrium Oxide)%	HfO ₂ (Hafnium Oxide)%	Al ₂ O ₃ (Aluminum Oxide)%	Organic Binder %
CAS#	1314-23-4	1314-36-9	12055-23-1	1344-28-1	N/A

Section 3: Hazards Identification

Route of Entry: Inhalation, Eye contact
Target Organs: Lungs, eyes
Inhalation: May irritate respiratory system
Skin Contact: May irritate skin.
Eyes Contact: Airborne dust may irritate eyes.
Ingestion: No hazard anticipated from ingestion

Section 4: First Aid Measures

Eye Contact: Hold eye open and rinse continuously with a gentle stream of clean running water for at least 15 minutes. Seek medical attention if any irritation or soreness of eye persists.

Skin contact: Wash skin with soap and water. Seek medical attention if any irritation or soreness of skin develops. Remove any contaminated clothing and shoes and clean before re-use.

Ingestion: First aid is unlikely to be required but if necessary rinse mouth with water ensuring that mouth wash is not swallowed. Seek medical attention as a precautionary measure if large amounts have been ingested.

Inhalation: Remove from source of exposure into fresh air and seek medical attention if any symptoms persist.

Section 5: Fire Fighting Measures

Non-flammable.

Use the correct fire fighting measures for the surrounding area.

Section 6: Accidental Release Measures

Clean up mechanically.

Section 7: Handling and Storage

Handling: None, if used properly; avoid the creation of dust from this product

Storage: No special storage requirements required.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Provide adequate local ventilation. Protective Equipment: Use NIOSH-approved safety glasses and dust mask during grinding. Exposure Guidelines/Other: This product has not been evaluated as a whole.

Section 9: Physical and Chemical Properties

<u>Physical State:</u>	White solid block
<u>Odor:</u>	Odorless
<u>Odor Threshold:</u>	Not applicable
<u>Physical State:</u>	Solid
<u>pH:</u>	Not applicable
<u>Boiling Point:</u>	Not applicable
<u>Flash Point:</u>	Not applicable
<u>Evaporation Rate:</u>	Not applicable
<u>Flammability:</u>	Noncombustible
<u>Upper/Lower Flammable Limit</u>	Not applicable
<u>Explosion Limit</u>	Not applicable
<u>Vapor Pressure:</u>	Not applicable
<u>Vapor Density:</u>	Not applicable
<u>Bulk Density:</u>	3.13g/cm ³
<u>Specific Gravity</u>	No data available
<u>Solubility in water:</u>	Insoluble
<u>Partition coefficient n-octanol/water</u>	No data available
<u>Auto-ignition temperature</u>	Not applicable
<u>Decomposition temperature</u>	Not applicable

Section 10: Stability and Reactivity

Chemical Stability:	Stable under ambient temperature (70 °C) and pressure (760 mm Hg).
Conditions to Avoid:	None known
Materials to avoid (incompatibility):	None known
Hazardous Decomposition Products:	Will not occur
Hazardous Polymerization:	Will not occur

Section 11: Toxicological Information

No toxicological information is available. The toxicological properties of this material as a whole have not been fully investigated.

Section 12: Ecological Information

The product is unlikely to cause any environmental damage if handled in the approved manner. It is insoluble in water.

Section 13: Disposal Considerations

This is a non-hazardous material. Disposal must be in accordance with applicable federal, state and local regulations. State or local regulations or restrictions may differ from federal regulations.

Section 14: Transport Information

Not available

Section 15: Regulatory Information

Not available.

Section 16: Other Information

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