

MSDS **Material Safety Data Sheet** **Ardent** **ARIDENT** INC

Ardent Z FZ Zirconia Discs

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MSDS Number: 214D

Revision Date: 3/14/2011

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ardent Z FZ Zirconia Discs
Revision Date: 3/14/2011
MSDS Number: 214D
Product Code: All shades
Product Use: Dental Restorations

Ardent, Inc.
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Amherst, NY 14228, USA

Technical Services: (866) 751-8548 (9 AM - 5 PM EST)

For MSDS assistance:
Emergency Call USA-Infotrac: (800) 535-5053 (24 hours/7 days)
Emergency Call Canada-Canutec: - 1-(613)-996-6666 (24 hours/7 days)

General MSDS Assistance:
US: 1-800-922-5520
Canada: 1-800-263-8182

2 COMPOSITION/INFORMATION ON INGREDIENTS

Dental ceramic blanks of yttria stabilized tetragonal zirconia polycrystal (YTZP) comprising:
>94% zirconia + hafnia (ZrO₂ + HfO₂), with HfO₂ typically <3%
<6% yttria (Y₂O₃)
<0.5% alumina (Al₂O₃)

OSHA Regulatory Status: This MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and made available for employees and other users of this product.

3 HAZARDS IDENTIFICATION

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

4 FIRST AID MEASURES

Inhalation: Remove to fresh air.
Skin Contact: Rinse with soap and water.
Eye Contact: Flush with copious amounts of water for at least 15 minutes; mechanical effects only. Consult an ophthalmologist or medical attention if necessary.
Ingestion: No hazard anticipated from ingestion.

5 FIRE FIGHTING MEASURES

Non-flammable.
Use the correct fire fighting measures for the surrounding area.

6 ACCIDENTAL RELEASE MEASURES

Clean up mechanically.

7 HANDLING AND STORAGE

Handling Precautions: Do not inhale or ingest.
Storage Requirements: Store in a dry place.

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.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to off-white disc/block	Boiling Point:	not applicable
Physical State:	solid	Freezing/Melting Pt.:	not applicable
Odor:	odorless	Solubility:	Not soluble in water
pH:	not applicable	Spec Grav./Density:	approx. 3 g/cm ³
Vapor Pressure:	not applicable		
Vapor Density:	not applicable		

10 STABILITY AND REACTIVITY

Stability: Stable
Conditions to avoid: None known
Materials to avoid (incompatibility): None known
Hazardous Decomposition products: None known
Hazardous Polymerization: None known

11 TOXICOLOGICAL INFORMATION

Acute toxicity - this product is not hazardous according to EEC criteria.
Subacute/Chronic toxicity - No adverse effects anticipated by this route of exposure incidental to proper industrial handling.
Further information - None.

12 ECOLOGICAL INFORMATION

No ecological problems to be anticipated if properly handled and used.
Non-soluble

13 DISPOSAL CONSIDERATIONS

This information applies to the material as manufactured; processing, use, or contamination may make the information inappropriate, inaccurate, or incomplete.
Waste must be handled in accordance with all applicable regulations. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

14 TRANSPORT INFORMATION

Not available

15 REGULATORY INFORMATION

Not available

16 OTHER INFORMATION

The information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed in good faith and believed to be correct as of the date hereof. Ardent, Inc., however, makes no representations as to the completeness or accuracy of this information and supplies it on the condition that the persons receiving same will make their own determinations as to its suitability for their purpose prior to use. In no event will Ardent, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information.

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END OF MSDS DOCUMENT