

MSDS *Material Safety Data Sheet*

Provident Dental Products

CZ Press Pellets

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MSDS Number: 210A

Revision Date: 04/05/07

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: CZ Press Pellets
Revision Date: 04/05/07
MSDS Number: 210A
Product Code: All pellet shades
Product Use: Dental Restorations

Provident Dental Products

500 Memorial Drive
Somerset, NJ 08873

For MSDS assistance:

Chemtrec: (800) 424-9300 (24 hours/7 days)

Chemtrec International: (202) 483-7616

Poison Control Center: If over-exposure occurs, call your poison control center at 1-800-222-1222 (24 hours/7 days)

For Emergencies, call 911 immediately (in the US).

2 COMPOSITION/INFORMATION ON INGREDIENTS

| CAS # | Component |
|------------|------------------|
| 12001-21-7 | Dental Porcelain |

Pressable ceramics is a variety of dental porcelain in the form of solid pellets/ingots. This material does not contain any forms of crystalline silica. In addition to silicon (Si) and oxygen (O), dental porcelains comprise the following chemical elements: Al, K, Na, Ca, and may also comprise Li, Mg, Ba, Ce, Ti, Zr, Sn, Y, B, F and Fe. All these elements are not present in their pure or individual oxide forms but rather chemically bonded together within insoluble alumo-silicate glass matrix. By convention the composition of dental porcelain, same as composition of many other glass-ceramic materials, is still reported on individual oxide basis. In that representation composition of dental porcelain may be given as about 50-80% of SiO₂, about 5-15% of Al₂O₃ and the balance comprised of chemical constituents listed above and below. Dental porcelain also contains small amounts of non-silica inclusions: pigments, opacifiers, opalescing and fluorescing agents, which are based on crystalline forms of TiO₂, ZrO₂, Al₂O₃, zirconium silicate (ZrSiO₄) and yttrium silicate (Y₂SiO₅). In pressable ceramics, sold in the form of pellets/ingots, these components are fused and completely encapsulated in chemically durable, insoluble glass matrix specifically designed and tested to resist wear and corrosion in oral environment.

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, Respiratory
Target Organs: Lungs
Inhalation: Dust over a prolonged period of time may result in lung damage. May irritate respiratory system.
Skin Contact: May irritate skin.
Eye Contact: Airborne dust may irritate eyes.
Ingestion: Not available

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4 FIRST AID MEASURES

- Inhalation:** Remove to fresh air. Contact a physician if necessary.
- Skin Contact:** Rinse with soap and water.
- Eye Contact:** Flush with copious amounts of water for at least 15 minutes. Consult an ophthalmologist or medical attention if necessary.
- Ingestion:** Rinse out mouth. Seek medical attention.

5 FIRE FIGHTING MEASURES

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

6 ACCIDENTAL RELEASE MEASURES

Vacuum chips or shards of material.
Avoid contact with potentially sharp edges or shards.
Vacuum powder dust from grinder, being careful not to generate airborne dust.

7 HANDLING AND STORAGE

- Handling Precautions:** Do not inhale or ingest.
- Storage Requirements:** Store pellets in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls:** Grind in a well ventilated area or an area with a proper exhaust fan.
- 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: | Beige/white solid ingot | Boiling Point: | not applicable |
| Physical State: | solid | Freezing/Melting Pt.: | not applicable |
| Odor: | odorless | Solubility: | not applicable |
| pH: | not applicable | Spec Grav./Density: | not applicable |
| Vapor Pressure: | not applicable | | |
| Vapor Density: | not applicable | | |

Bulk Density: 2.3-2.4 g/cm³

Fusion Point: 1580-1616 deg F (860-880 deg C)

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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

Not available

12 ECOLOGICAL INFORMATION

Not available

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. Provident Dental Products 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 Provident Dental Products be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information.

Rev# 0

END OF MSDS DOCUMENT