

# MATERIAL SAFETY DATA SHEET

Revision Date 5/30/06

## **Section 1: Product and Company Identification**

Product Name: PrismaTik Porcelain  
MSDS number: 01

PrismaTik Dentalcraft, Inc.  
2181 Dupont Drive  
Irvine, CA 92612

Telephone Number for Information:  
800-854-7256

24-Hour Information: Chemtrec: 800-424-9300  
Chemtrec International: (202)483-7616  
Poison Control Center: If over-exposure occurs, call your poison  
control center at 1-800-222-1222

For emergencies, call 911 immediately (in the U.S.)

## **Section 2: Composition/Information on Ingredients**

CAS#	Component
12001-21-7	Dental Porcelain

Ingredients: The exact composition is proprietary.

This material does not contain any forms of crystalline silica. In addition to silicon (Si) and oxygen (O), dental porcelains are composed of the following chemical elements: Al, K, Na, Ca and may also include 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 an 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% SiO<sub>2</sub>, about 5-15% of Al<sub>2</sub>O<sub>3</sub> and the balance consists 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 TiO<sub>2</sub>, ZrO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, zirconium silicate(ZrSiO<sub>4</sub>) and yttrium silicate(Y<sub>2</sub>SiO<sub>5</sub>). In the fired state of dental porcelain these components are fused and completely encapsulated in a chemically durable, insoluble glass matrix specifically designed and tested to resist wear and corrosion within the 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.

### **Section 3: Hazard Identification**

**Route of Entry:** Inhalation, Eye contact, Skin Contact, Ingestion.  
**Target Organs:** Lungs.  
**Inhalation:** May irritate respiratory system.  
**Skin Contact:** May irritate skin.  
**Eye Contact:** Airborne dust may irritate eyes.  
**Ingestion:** May irritate digestive system.

### **Section 4: First Aid Measures**

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

### **Section 5: Fire Fighting Measures**

Non-flammable. No fire or explosion hazards exist with this product. Use the correct fire fighting measures for the surrounding area.

### **Section 6: Accidental Release Measures**

Use personal protection recommended in Section 8. Isolate area to prevent unnecessary and unprotected personnel from coming in contact with powder. Powder should be vacuumed carefully as to not generate airborne dust.

### **Section 7: Handling and Storage**

**Handling Precautions:** Do not inhale or ingest.  
**Storage Requirements:** Keep container tightly closed when not in use.  
Store in original container.

### **Section 8: Exposure Controls/Personal Protection**

**Engineering Controls:** Mix, grind, and/or polish in a well ventilated area or an area with a proper exhaust fan.  
**Protective Equipment:** Use NIOSH-approved safety glasses and dust mask.  
**Exposure Guidelines/**  
**Other:** This product has not been evaluated as a whole.

### **Section 9: Physical and Chemical Properties**

**Appearance:** Fine powder in various colors.  
**Physical State:** Powder  
**Odor:** Odorless  
**pH:** Not available

**Vapor Pressure:** Not available  
**Vapor Density:** Not available  
**Boiling Point:** Not available  
**Freezing/Melting Pt:** Not available  
**Solubility:** Not available  
**Specific Gravity/Density** Not available

**Bulk Density:** 2.3 – 2.4 g/cm<sup>3</sup>  
**Fusion Point:** 1500-1850 °F (816-1010 °C)  
**Glass Transition Temperature:** 840-1067 °F (449 – 575 °C)

#### **Section 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

#### **Section 11: Toxicological Information**

Not Available

#### **Section 12: Ecological Information**

Not Available

#### **Section 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 disposition regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

#### **Section 14: Transport Information**

Not Available

#### **Section 15: Regulatory Information**

Federal law restricts this device to sale by or on the order of a dentist.

#### **Section 16: Other Information**

The information and recommendations set forth herein (hereinafter “Information”) are presented in good faith and believed to be correct as of the date hereof. Prismatic Dentalcraft, 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 determination as to its suitability for their purpose prior to use. In no event will Prismatic Dentalcraft, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information.

# MATERIAL SAFETY DATA SHEET

Revision Date: 5/30/06

## **Section 1: Product and Company Identification**

Product Name: Prismatic Glaze Powder

MSDS number: 02

Prismatic Dentalcraft, Inc.

2181 Dupont Drive

Irvine, CA 92612

Telephone Number for Information:

800-854-7256

24-Hour Information: Chemtrec: 800-424-9300

Chemtrec International: (202)483-7616

Poison Control Center: If over-exposure occurs, call your poison control center at 1-800-222-1222

For emergencies, call 911 immediately (in the U.S.)

## **Section 2: Composition/Information on Ingredients**

CAS#	Component
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12001-21-7	Dental Porcelain
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Ingredients: The exact composition is proprietary.

This material does not contain any forms of crystalline silica. In addition to silicon (Si) and oxygen (O), dental porcelains are composed of the following chemical elements: Al, K, Na, Ca and may also include 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 an insoluble aluminosilicate 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% SiO<sub>2</sub>, about 5-15% of Al<sub>2</sub>O<sub>3</sub> and the balance consists 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 TiO<sub>2</sub>, ZrO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, zirconium silicate(ZrSiO<sub>4</sub>) and yttrium silicate(Y<sub>2</sub>SiO<sub>5</sub>). In the fired state of dental porcelain these components are fused and completely encapsulated in a chemically durable, insoluble glass matrix specifically designed and tested to resist wear and corrosion within the 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.

### **Section 3: Hazard Identification**

**Route of Entry:** Inhalation, Eye contact, Skin Contact, Ingestion.  
**Target Organs:** Not available.  
**Inhalation:** May irritate respiratory system.  
**Skin Contact:** May irritate skin.  
**Eye Contact:** May irritate eyes.  
**Ingestion:** May irritate digestive system.

### **Section 4: First Aid Measures**

**Inhalation:** Remove to fresh air. Seek medical attention if needed.  
**Skin contact:** Flush with water. Remove any contaminated clothing.  
Consult a physician if irritation occurs.  
**Eye Contact:** Flush with copious amounts of water for at least 15 minutes.  
Consult an ophthalmologist or seek medical attention if necessary.  
**Ingestion:** Rinse out mouth and then drink plenty of water. Seek medical attention

### **Section 5: Fire Fighting Measures**

Non-flammable. No fire or explosion hazards exist with this product. Use the correct fire fighting measures for the surrounding area.

### **Section 6: Accidental Release Measures**

Use personal protection recommended in Section 8. Isolate area to prevent unnecessary and unprotected personnel from coming in contact with powder. Powder should be vacuumed carefully as to not generate airborne dust.

### **Section 7: Handling and Storage**

**Handling Precautions:** Keep out of eyes.  
Avoid excessive contact with skin.  
Do not ingest.  
**Storage Requirements:** Keep container tightly closed when not in use.  
Store in original container.

### **Section 8: Exposure Controls/Personal Protection**

**Engineering Controls:** Use in a well ventilated area or an area with a proper exhaust fan.  
**Protective Equipment:** Protective Gloves: Latex recommended  
Eye Protection: OSHA-approved safety goggles.  
Other: Lab coat/apron depending on operation  
**Exposure Guidelines/**  
**Other:** This product has not been evaluated as a whole.

### **Section 9: Physical and Chemical Properties**

<b>Appearance:</b>	Fine powder in various colors.
<b>Physical State:</b>	Powder
<b>Odor:</b>	Odorless
<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	Not available
<b>Vapor Density:</b>	Not available
<b>Boiling Point:</b>	Not available
<b>Freezing/Melting Pt:</b>	Not available
<b>Solubility:</b>	Not available
<b>Spec. Gravity/Density</b>	Not available

<b>Bulk Density:</b>	2.3 – 2.4 g/cm <sup>3</sup>
<b>Fusion Point:</b>	1000-1300 °F (537-704 °C)

### **Section 10: Stability and reactivity**

<b>Stability:</b>	Stable
<b>Conditions to Avoid:</b>	None known
<b>Materials to avoid (incompatibility):</b>	None known
<b>Hazardous Decomposition Products:</b>	None known
<b>Hazardous Polymerization:</b>	None known

### **Section 11: Toxicological Information**

Not Available

### **Section 12: Ecological Information**

Not Available

### **Section 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 disposition regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

### **Section 14: Transport Information**

Not Available

### **Section 15: Regulatory Information**

Not available

### **Section 16: Other Information**

The information and recommendations set forth herein (hereinafter “Information”) are presented in good faith and believed to be correct as of the date hereof.

Prismatik Dentalcraft, 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 determination as to its suitability for their purpose prior to use. In no event will Prismatic Dentalcraft, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information.

# MATERIAL SAFETY DATA SHEET

Revision Date 1/27/06

## **Section 1: Product and Company Identification**

Product Name: Prismatic Universal Liquid  
MSDS number: 03

Prismatic Dentalcraft, Inc.  
2181 Dupont Drive  
Irvine, CA 92612

Telephone Number for Information:  
800-854-7256

24-Hour Information: Chemtrec: 800-424-9300  
Chemtrec International: (202)483-7616  
Poison Control Center: If over-exposure occurs, call your poison  
control center at 1-800-222-1222

For emergencies, call 911 immediately (in the U.S.)

## **Section 2: Composition/Information on Ingredients**

Aqueous solution of electrolytes and surfactants with >99% water.

## **Section 3: Hazard Identification**

**Route of Entry:** Inhalation, Eye contact, Skin Contact  
**Target Organs:** Not available  
**Inhalation:** May irritate respiratory system.  
**Skin Contact:** May irritate skin.  
**Eye Contact:** May irritate eyes.  
**Ingestion:** May irritate digestive system.

This material has not been evaluated as a whole. Therefore, the information provided is based on the individual pure components, not necessarily their current forms.

## **Section 4: First Aid Measures**

**Inhalation:** Remove to fresh air. Seek medical attention if needed.  
**Skin Contact:** Flush with water. Remove any contaminated clothing.  
Consult with a physician if irritation occurs.  
**Eye Contact:** Flush with copious amounts of water for at least 15 minutes.  
Consult an ophthalmologist or seek medical attention if necessary.  
**Ingestion:** Rinse out mouth and then drink plenty of water. Seek medical  
attention.



### **Section 5: Fire Fighting Measures**

Non-flammable. No fire or explosion hazards exist with this product. Use the correct fire fighting measures for the surrounding area.

### **Section 6: Accidental Release Measures**

Use personal protection recommended in Section 8. Isolate area to prevent unnecessary and unprotected personnel from coming in contact with liquid. Soak up with absorbent material.

### **Section 7: Handling and Storage**

**Handling Precautions:** Keep out of eyes.  
Avoid excessive contact with skin.  
Do not ingest.

**Storage Requirements:** Keep in original container.  
Keep closed when not in use.

### **Section 8: Exposure Controls/Personal Protection**

**Engineering Controls:** Use in a well ventilated area or an area with a proper exhaust fan.

**Protective Equipment:** Protective Gloves: Neoprene or Nitrile  
Eye Protection: OSHA-approved safety goggles  
Other: Lab coat/apron depending on operation

### **Exposure Guidelines/**

**Other:** This product has not been evaluated as a whole.

### **Section 9: Physical and Chemical Properties**

**Appearance:** Colorless liquid  
**Physical State:** Liquid  
**Odor:** Odorless  
**pH:** 7  
**Vapor Pressure:** Not available  
**Vapor Density:** Not available  
**Boiling Point:** 248 °F(120 °C)  
**Freezing/Melting Pt:** 32 °F(0 °C)  
**Solubility:** Soluble  
**Specific Gravity/Density** 1.00 g/cc

### **Section 10: Stability and Reactivity**

**Stability:** Stable  
**Conditions to Avoid:** None known  
**Incompatibility:** None known  
**Hazardous Decomposition Products:** None Known  
**Hazardous Polymerization:** None Known

**Section 11: Toxicological Information**

Not Available

**Section 12: Ecological Information**

Not Available

**Section 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 disposition regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

**Section 14: Transport Information**

Not Available

**Section 15: Regulatory Information**

Not Available

**Section 16: Other Information**

The information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof. Prismatic Dentalcraft, 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 determination as to its suitability for their purpose prior to use. In no event will Prismatic Dentalcraft, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information.

# MATERIAL SAFETY DATA SHEET

Revision Date 1/31/06

## **Section 1: Product and Company Identification**

Product Name: Prismatic Glaze Liquid

MSDS number: 04

Prismatic Dentalcraft, Inc.

2181 Dupont Drive

Irvine, CA 92612

Telephone Number for Information:

800-854-7256

24-Hour Information: Chemtrec: 800-424-9300

Chemtrec International: (202)483-7616

Poison Control Center: If over-exposure occurs, call your poison control center at 1-800-222-1222

For emergencies, call 911 immediately (in the U.S.)

## **Section 2: Composition/Information on Ingredients**

Mixture of glycols

## **Section 3: Hazard Identification**

**Route of Entry:** Inhalation, Eye contact, Skin Contact, Ingestion.

**Target Organs:** Not available.

**Inhalation:** May irritate respiratory system.

**Skin Contact:** May irritate skin.

**Eye Contact:** May irritate eyes.

**Ingestion:** May irritate digestive system.

## **Section 4: First Aid Measures**

**Inhalation:** Remove to fresh air. Seek medical attention if needed.

**Skin contact:** Flush with water. Remove any contaminated clothing.

Consult a physician if irritation occurs.

**Eye Contact:** Flush with copious amounts of water for at least 15 minutes.

Consult an ophthalmologist or seek medical attention if necessary.

**Ingestion:** Rinse out mouth and drink plenty of water.

Seek medical attention immediately.

## **Section 5: Fire Fighting Measures**

**Flash Point:** 255 F°(124 °C)

**Autoignition Temperature:** 435 F°(224 °C)

Water, fog, alcohol resistant foam, carbon dioxide, or dry chemical

### **Section 6: Accidental Release Measures**

Soak up with absorbent material.

If large amounts, dike area to prevent contamination into waterways.

### **Section 7: Handling and Storage**

**Handling Precautions:** Keep out of eyes.  
Avoid excessive contact with skin.  
Do not ingest.

**Storage Requirements:** Keep in original container.  
Keep closed when not in use.  
Keep away from heat, flame, and oxidizing agents.

### **Section 8: Exposure Controls/Personal Protection**

**Engineering Controls:** Use in a well ventilated area or an area with a proper exhaust fan.

**Protective Equipment:** Protective Gloves: Neoprene or Nitrile.  
Eye Protection: OSHA-approved safety goggles.  
Other: Lab coat/apron depending on operation.

**Exposure Guidelines/**

**Other:** This product has not been evaluated as a whole.

### **Section 9: Physical and Chemical Properties**

**Appearance:** Colorless liquid  
**Physical State:** Liquid  
**Odor:** Mild Odor  
**pH:** Not available  
**Vapor Pressure:** Not available  
**Vapor Density:** Not available  
**Boiling Point:** 474 °F(246 °C)  
**Freezing/Melting Pt:** 32 °F(0 °C)  
**Solubility:** Completely miscible  
**Specific Gravity/Density** 1.117 g/cc @ 20/20 C

### **Section 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

### **Section 11: Toxicological Information**

Not Available

### **Section 12: Ecological Information**

Not Available

**Section 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 disposition regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

**Section 14: Transport Information**

Not Available

**Section 15: Regulatory Information**

Not available

**Section 16: Other Information**

The information and recommendations set forth herein (hereinafter “Information”) are presented in good faith and believed to be correct as of the date hereof. Prismatic Dentalcraft, 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 determination as to its suitability for their purpose prior to use. In no event will Prismatic Dentalcraft, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information.

# MATERIAL SAFETY DATA SHEET

Revision Date 1/31/06

## **Section 1: Product and Company Identification**

Product Name: PrismaStain  
MSDS number: 05

PrismaStain Dentalcraft, Inc.  
2181 Dupont Drive  
Irvine, CA 92612

Telephone Number for Information:  
800-854-7256

24-Hour Information: Chemtrec: 800-424-9300  
Chemtrec International: (202)483-7616  
Poison Control Center: If over-exposure occurs, call your poison  
control center at 1-800-222-1222

For emergencies, call 911 immediately (in the U.S.)

## **Section 2: Composition/Information on Ingredients**

CAS#	Component
12001-21-7	Dental Porcelain

Ingredients: The exact composition is proprietary.

This material does not contain any forms of crystalline silica. In addition to silicon (Si) and oxygen (O), dental porcelains are composed of the following chemical elements: Al, K, Na, Ca and may also include 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 an insoluble aluminosilicate 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% SiO<sub>2</sub>, about 5-15% of Al<sub>2</sub>O<sub>3</sub> and the balance consists 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 TiO<sub>2</sub>, ZrO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, zirconium silicate(ZrSiO<sub>4</sub>) and yttrium silicate(Y<sub>2</sub>SiO<sub>5</sub>). In the fired state of dental porcelain these components are fused and completely encapsulated in a chemically durable, insoluble glass matrix specifically designed and tested to resist wear and corrosion within the 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.

### **Section 3: Hazard Identification**

**Route of Entry:** Inhalation, Eye contact, Skin Contact, Ingestion.  
**Target Organs:** Lungs.  
**Inhalation:** May irritate respiratory system.  
**Skin Contact:** May irritate skin.  
**Eye Contact:** Airborne dust may irritate eyes.  
**Ingestion:** May irritate digestive system.

### **Section 4: First Aid Measures**

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

### **Section 5: Fire Fighting Measures**

Non-flammable. No fire or explosion hazards exist with this product. Use the correct fire fighting measures for the surrounding area.

### **Section 6: Accidental Release Measures**

Use personal protection recommended in Section 8. Isolate area to prevent unnecessary and unprotected personnel from coming in contact with powder. Powder should be vacuumed carefully as to not generate airborne dust.

### **Section 7: Handling and Storage**

**Handling Precautions:** Do not inhale or ingest.  
**Storage Requirements:** Keep container tightly closed when not in use.  
Store in original container.

### **Section 8: Exposure Controls/Personal Protection**

**Engineering Controls:** Mix, grind, and/or polish in a well ventilated area or an area with a proper exhaust fan.  
**Protective Equipment:** Use NIOSH-approved safety glasses and dust mask.  
**Exposure Guidelines/**  
**Other:** This product has not been evaluated as a whole.

### **Section 9: Physical and Chemical Properties**

**Appearance:** Fine powder in various colors.  
**Physical State:** Powder  
**Odor:** Odorless

<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	Not available
<b>Vapor Density:</b>	Not available
<b>Boiling Point:</b>	Not available
<b>Freezing/Melting Pt:</b>	Not available
<b>Solubility:</b>	Not available
<b>Specific Gravity/Density</b>	Not available
<b>Bulk Density:</b>	2.3 – 2.4 g/cm <sup>3</sup>
<b>Fusion Point:</b>	1350-1720 °F (732-938 °C)
<b>Glass Transition Temperature:</b>	806-842 °F (430 – 450 °C)

**Section 10: Stability and reactivity**

<b>Stability:</b>	Stable
<b>Conditions to Avoid:</b>	None known
<b>Materials to avoid (incompatibility):</b>	None known
<b>Hazardous Decomposition Products:</b>	None known
<b>Hazardous Polymerization:</b>	None known

**Section 11: Toxicological Information**

Not Available

**Section 12: Ecological Information**

Not Available

**Section 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 disposition regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

**Section 14: Transport Information**

Not Available

**Section 15: Regulatory Information**

Not available

**Section 16: Other Information**

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# MATERIAL SAFETY DATA SHEET

Revision Date 1/31/06

## **Section 1: Product and Company Identification**

Product Name: PrismaTik ThinPress Pellets  
MSDS number: 07

PrismaTik Dentalcraft, Inc.  
2181 Dupont Drive  
Irvine, CA 92612

Telephone Number for Information:  
800-854-7256

24-Hour Information: Chemtrec: 800-424-9300  
Chemtrec International: (202)483-7616  
Poison Control Center: If over-exposure occurs, call your poison  
control center at 1-800-222-1222

For emergencies, call 911 immediately (in the U.S.)

## **Section 2: Composition/Information on Ingredients**

CAS#	Component
12001-21-7	Dental Porcelain

Ingredients: The exact composition is proprietary.

This material does not contain any forms of crystalline silica. In addition to silicon (Si) and oxygen (O), dental porcelains are composed of the following chemical elements: Al, K, Na, Ca and may also include 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 an 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% SiO<sub>2</sub>, about 5-15% of Al<sub>2</sub>O<sub>3</sub> and the balance consists 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 TiO<sub>2</sub>, ZrO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, zirconium silicate(ZrSiO<sub>4</sub>) and yttrium silicate(Y<sub>2</sub>SiO<sub>5</sub>). In the fired state of dental porcelain these components are fused and completely encapsulated in a chemically durable, insoluble glass matrix specifically designed and tested to resist wear and corrosion within the 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.

### **Section 3: Hazard Identification**

**Route of Entry:** Inhalation, Eye contact.  
**Target Organs:** Lungs.  
**Inhalation:** Dust over a prolonged period of time may result in lung damage.  
**Skin Contact:** Not available.  
**Eye Contact:** Airborne dust may irritate eyes.  
**Ingestion:** Not available.

### **Section 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.  
Consult an ophthalmologist or seek medical attention if necessary.  
**Ingestion:** Rinse out mouth and drink plenty of water.  
Seek medical attention if necessary.

### **Section 5: Fire Fighting Measures**

Non-flammable. No fire or explosion hazards exist with this product.  
Use the correct fire fighting measures for the surrounding area.

### **Section 6: Accidental Release Measures**

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

### **Section 7: Handling and Storage**

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

### **Section 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.

### **Section 9: Physical and Chemical Properties**

**Appearance:** Beige/white solid ingot  
**Physical State:** Solid  
**Odor:** Odorless  
**pH:** Not applicable

<b>Vapor Pressure:</b>	Not applicable
<b>Vapor Density:</b>	Not applicable
<b>Boiling Point:</b>	Not applicable
<b>Freezing/Melting Pt:</b>	Not applicable
<b>Solubility:</b>	Not applicable
<b>Specific Gravity/Density</b>	Not applicable
<b>Bulk Density:</b>	2.35 – 2.40 g/cm <sup>3</sup>
<b>Fusion Point:</b>	1832 °F (1000 °C)
<b>Glass Transition Temperature:</b>	1022 - 1094 °F (550 – 590 °C)

**Section 10: Stability and reactivity**

<b>Stability:</b>	Stable
<b>Conditions to Avoid:</b>	None known
<b>Materials to avoid (incompatibility):</b>	None known
<b>Hazardous Decomposition Products:</b>	None known
<b>Hazardous Polymerization:</b>	None known

**Section 11: Toxicological Information**

Not Available

**Section 12: Ecological Information**

Not Available

**Section 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 disposition regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

**Section 14: Transport Information**

Not Available

**Section 15: Regulatory Information**

Not available

**Section 16: Other Information**

The information and recommendations set forth herein (hereinafter “Information”) are presented in good faith and believed to be correct as of the date hereof. Prisma<sup>TM</sup> Dentalcraft, 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 determination as to its suitability for their purpose prior to use. In no event will Prisma<sup>TM</sup> Dentalcraft, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information.