MATERIAL SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: Prismatik BruxZir Milling Blank

Other Names: Prismatik BruxZir Blank, BruxZir Block, BruxZir Blank, BruxZir

MSDS Number: 13

Manufacturer: Prismatik Dentalcraft, Inc.

2181 Dupont Drive Irvine, CA 92612

For Product Information: (800) 854-7256

24-Hour Information:

Chemtrec USA: (800) 424-9300 (24 hours a day/7 days a week) Chemtrec International: (703) 527-3887 (Collect calls accepted)

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

1-800-222-1222.

Product Use:

Intended use: Fabrication of zirconia-based crown and bridge

frameworks.

Limitations on Use: For use only by dental technicians.

Section 2: Chemical Composition/Information on Ingredients

Typical Analysis – Chemical:

Chemical Name	CAS Number	Proportion(%)
Ceramic	66402-68-4	100

Section 3: Hazards Identification

Emergency Overview

An odorless white solid block/slab/cylinder.

WARNING

May cause eye, skin, and respiratory tract irritation.

This material presents little or no hazard (if spilled) and no unusual hazard if involved with a fire.

Potential Health Effects:

Eye Contact: Dust may cause irritation.

Skin Contact: May cause irritation and itching.

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<u>Ingestion:</u> Low acute oral toxicity. Ingestion in large quantities may

affect gastro-intestinal system and may cause irritation of the

mouth and throat, abdominal pain and diarrhea.

<u>Inhalation:</u> Can be irritating at high concentrations and may cause symptoms

such as coughing and sneezing.

Radiation: Non-radioactive.

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

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.

<u>Ingestion:</u> 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

Autoignition Temperature:

Flash Point:

Flammable Limits – LEL
Flammable Limits – UEL

Not determined
Not determined
Not determined

Extinguishing Media Use dry chemical, foam, water, CO₂.

Special Fire Fighting Procedures Wear NIOSH/MSHA-approved self-contained

breathing apparatus and full protective clothing.

Cool containers exposed to fire with water.

<u>Unusual Fire and Explosion Hazards</u> This is a non-combustible material. Al though

powder is essentially inert, dusts, when mixed with air in critical proportions and in the presence of an ignition source, may present an explosion hazard.

Hazardous Decomposition Materials Under Fire Conditions None known

Section 6: Accidental Release Measures

Wear safety equipment as described in Section 8 for normal handling, avoid generating dust. Scoop up material and place in appropriate containers for disposal or reuse. For smaller amounts, sweep or vacuum up material. Disposal to landfill is subject to local regulations. Transport is not regulated and there are no specific storage requirements.

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Section 7: Handling and Storage

<u>Handling:</u> Avoid direct eye contact and prolonged or repeated skin

contact. Avoid breathing dusts.

Storage: Transport is not regulated and may be stored in alkali proof

containers. Storage should be designed to minimize

creation of dust.

<u>Spillage:</u> Wear protective equipment as specified for handling.

Sweep or vacuum up and reuse or dispose. Avoid

generation of dust.

<u>Waste Disposal:</u> See Section 13: Disposal Considerations

<u>Fire Explosion:</u> Incombustible.

Fire Extinguishing: Use whatever protective equipments and extinguishing

agents that are suitable for primary cause of fire.

Section 8: Exposure Controls/Personal Protection

Airborne Contaminant Exposure Limits:

Chemical Name	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)
Ceramic (as a Nuisance Dust)	5(R)	5(R)
	15(T)	15(T)

All values are Time-Weighted Averages (TWA) unless noted.

STEL = Short Term Exposure Limit PEL = Permissible Exposure Limit

OSHA = Occupational Safety and Health Administration

ACGIH = American Conference of Governmental Industrial Hygienists

TLV = Threshold Limit Value

T = Total Dust

R = Respirable Fraction

Engineering Controls: Use exhaust ventilation to keep airborne

concentrations below exposure limits.

Personal Protective Equipment:

Eye protection: Safety goggles with side shields.

Skin protection: Gloves are not required but can be worn to avoid

prolonged or repeated exposure.

Respiratory Protection: Under normal use, exposure levels are not expected

to be significant. A dust type respirator may be

used to prevent inhalation.

Section 9: Physical and Chemical Properties

Appearance: White solid block/slab/cylinder

Odorless Odorless

Odor Threshold Not applicable

Physical State: Solid

pH: Not applicable

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Melting Point: 2700 °C, 4892 °F Boiling Point: Not applicable

Flash Point: None

Evaporation Rate:

Flammability:

Upper/Lower Flammable Limit

Explosive Limit

Vapor Pressure:

Vapor Density:

Bulk Density:

Not applicable

Specific Gravity No data available

Solubility in water: Insoluble

Partition coefficient n-octanol/waterNo data availableAuto-ignition temperatureNot applicableDecomposition temperatureNot applicable

Section 10: Stability and Reactivity

Chemical Stability: Stable under ambient temperature (70 °C)

and pressure (760 mm Hg).

Conditions to Avoid:None knownMaterials to avoid (incompatibility):None knownHazardous Decomposition Products:Will not occurHazardous 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

Transport is not regulated by the United States Department of Transportation and may be transported in alkali proof containers as a non-hazardous material. Trucks transporting/carrying bulk material should be covered to prevent dust generation.

Section 15: Regulatory Information

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<u>Labeling:</u> May be required in the USA if quartz exceeds 0.10%

Radiological Protection: The regulations pertaining to radiological protection vary

from country to country. It is the responsibility of the buyer to ensure that those are met in accordance with

his/her law.

SARA Title III None of the chemicals in this product are reported

substances.

TSCA Inventory All chemicals in this product are listed on the TCSA

inventory and classified as exempt from reporting.

TSCA Section 12(b) None of the chemicals in this product are listed under

TSCA Section 12(b) for export notification requirements.

<u>Canada WHMIS</u> All chemicals in this product do not possess a WHMIS

classification.

<u>Canada DSL</u> All chemicals in this product are listed on the Canadian

Domestic Substances List inventory list.

<u>European Union EINECS</u> All chemicals in this product are listed in the European

Inventory of Existing Commercial Chemical Substances.

<u>California Prop 65</u> None of the chemicals in this product are listed as known to

cause cancer or reproductive toxicity.

ROC None of the chemicals in this product are listed in the 11th

edition of the National Toxicology Program(NTP) Annual Report on Carcinogens as known or reasonably suspected

carcinogens.

IARC None of the chemicals in this product have been found to

be a potential carcinogen in the International Agency for

Research on Cancer (IARC) Monographs.

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 Prismatik Dentalcraft, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information.

The information contained herein is based on data considered accurate. However no warranty is expressed or implied regarding the accuracy of these data or results obtained from the use thereof. Prismatik Dentalcraft assumes no responsibility for personal damage caused by the product. Users assume all risks associated with use.

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