



Material Safety Data Sheet

OBSIDIAN™ Milling Blocks

Section 1 – Product Name and Manufacturer

Product Name: OBSIDIAN™ Milling Blocks
MSDS No.: L001 **CAS No.:** N.E
Chemical family: Inorganic
Product Use: compound
Intended Use: Use as a pressable ceramic.
Limitations: For dental lab use only.
Manufacturer: Primatik Dentalcraft, Inc.
 2212 Dupont Dr.
Irvine, CA 92612
Phone No.: (954) 492-2005 (for Information)
Emergency No.: (800) 854-7256
Chemtre USA: (800) 424-9300 (24 hrs. / 7 days)
Chemtre Int'l; (703) 527-3887 (Collect calls accepted)
Poison Control Ctr.: (800) 222-1222 (If over-exposure occurs)

Section 2 – Chemical Composition

Chemical Name & Components	CAS #'s	Weight %		OSHA PEL	NIOSH PEL	ACGIH PEL
		Min.	Max.			
Silicon Dioxide (SiO ₂)	7631-86-9	50	58	5mg/m3	0.05 mg/m3	0.05 mg/m3
Lithium Oxide (Li ₂ O)	12057-24-8	10	20	None established	None established	None established
Germanium Dioxide (GeO ₂)	1310-53-8	1	10	None established	None established	None established
Potassium Oxide (K ₂ O)	12136-45-7	2	6	None established	None established	None established
Phosphorous Pentoxide (P ₂ O ₅)	1314-56-3	2	4	0.1mg/m3	0.1 mg/m3	0.1 mg/m3
Aluminum Oxide (Al ₂ O ₃)	1344-28-1	2	4	5mg/m3	5mg/m3	5mg/m3
Zirconium Dioxide (ZrO ₂)	1314-23-4	2	4	5mg/m3	5mg/m3	5mg/m3
Pigments		0	10			

Chemical Characteristics

Section 3 – Health Hazard Data

Primary Routes of Entry : N/A
Inhalation: N/A
Ingestion: N/A
Skin Absorption: NOT hazardous
Health Hazards: Avoid inhalation of dust when grinding.
 Carcinogenic effects: Not effects
 Mutagenic effects: Not effects
 Teratogenic affects: Not effects

Section 4 – Emergency First Aid and Procedures

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Eye contact: Irrigate immediately with large amounts of fresh water.

Skin contact: NO specific requirements.

Inhalation: Take into fresh air.

Ingestion: NO hazard anticipated from ingestion.

Section 5 – Fire and Explosion Hazard Data

Flammability of product: Non-flammable

Flash Point and Method Used: N/A

Auto-ignition Temperature: N/A

Flammability Limits in Air % by Volume: N/A **LEL:** N/A **UEL:** N/A

Products of combustion: None Reported

Fire hazards in presence of various substances: None Reported

Explosion hazards in presence of various substances: None Reported

Extinguishing Media: N/A

Special Fire Fighting Procedures: N/A

Unusual Fire Explosion Hazards: N/A

Section 6 – Accidental Release Measures

Material Spillage or Accidental Release: Handle as normal solid waste. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Wear safety equipment as described in Section 8 for normal handling, avoid generating dust.

Section 7 – Handling and Storage

Handling and Storage Precautions: Store at room temperature in appropriate containers. Do not breathe dust when grinding the material

Special Hazards or Precautions: Avoid conditions that may result in dispersion to streams or waters.

Industrial Hygiene: Usual hygiene measures for dental practice.

Section 8 – Control Aid Protective Measures

Respiratory Protection: NIOSH approved dust mist respirator when grinding the material.

Skin Protection: NO specific requirements.

Eye Protection: OSHA approved safety goggles.

Other Protective Equipment or Clothing: Protective garment to keep dust from clothes.

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NFPA Rating: Estimated: Health: 1; Flammability: 0; Instability: 0

HMS: Health Hazard: 1; Fire Hazard: 0; Reactivity: 0; Personal Protection: B



Section 9 – Physical and Chemical Characteristics

Physical state: Solid

Appearance and Odor: Odorless

Taste: None

Color: N/A

Boiling Point: No Data

Vapor Pressure: (mm, hg & temperature) : N/A

Evaporation Rate: (_____) : N/A

Solubility in H₂O: Insoluble

Density: (H₂O = 1): 2.6

Melting Point: Approx. 1200°C

Vapor Density: (air = 1) : N/A

Water Reactive: N/A

Section 10 – Reactivity Hazard Data

Stability: This product is stable

Thermal Decomposition: NONE

Conditions to Avoid: Dusting

Hazardous Polymerization: Will NOT occur.

Incompatibility with various substances: NONE

Corrosivity: N/A

Hazardous Decomposition: NONE

Section 11 – Toxicological Information

Acute toxicity: NONE

Subacute/chronic toxicity: NO adverse effects anticipated by this route of exposure incidental to proper industrial handling.

Additional information: When used and handled according to specifications, the product does not have harmful effects.

Section 12 – Ecological Information

At present there are NO ecotoxicological assessments.

Section 13 – Waste Disposal Methods

Consult EPA, state and local laws for disposal.



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Left over materials product is suitable to be recycled if it is sent properly identified and well packaged to the manufacturer.

Section 14 – Transport Information

The product is classified as a non-hazardous material. Transport is NOT regulated by the United States Department of Transportation.

Section 15 – Regulatory Information

This product is classified as a medical device under US regulations and has been reviewed by the FDA.

Labeling:	Required in US.
SARA Title III:	None of the chemicals in this product are reported substances.
California Prop 65:	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 11 th 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. 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. However, Prismatic Dentalcraft, Inc. makes NO warranty of merchantability or any other warranty, expressed or implied, with respect to such information.