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. For dental lab use only.
Limitations:

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

<table>
<thead>
<tr>
<th>Chemical Name &amp; Components</th>
<th>CAS #’s</th>
<th>Weight %</th>
<th>OSHA PEL</th>
<th>NIOSH PEL</th>
<th>ACGIH PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Dioxide (SiO₂)</td>
<td>7631-86-9</td>
<td>50-58</td>
<td>5mg/m³</td>
<td>0.05mg/n³</td>
<td>0.05mg/m³</td>
</tr>
<tr>
<td>Lithium Oxide (Li₂O)</td>
<td>12057-24-8</td>
<td>10-20</td>
<td>None established</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>Germanium Dioxide (GeO₂)</td>
<td>1310-63-8</td>
<td>1-10</td>
<td>None established</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>Potassium Oxide (K₂O)</td>
<td>12136-45-7</td>
<td>2-6</td>
<td>None established</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>Phosphorous Pentoxide (P₂O₅)</td>
<td>1314-56-3</td>
<td>2-4</td>
<td>0.1mg/m³</td>
<td>0.1mg/m³</td>
<td>0.1mg/m³</td>
</tr>
<tr>
<td>Aluminum Oxide (Al₂O₃)</td>
<td>1344-28-1</td>
<td>2-4</td>
<td>5mg/m³</td>
<td>5mg/m³</td>
<td>5mg/m³</td>
</tr>
<tr>
<td>Zirconium Dioxide (ZrO₂)</td>
<td>1314-23-4</td>
<td>2-4</td>
<td>5mg/m³</td>
<td>5mg/m³</td>
<td>5mg/m³</td>
</tr>
<tr>
<td>Pigments</td>
<td>0-10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 effects: 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
HMIS: 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 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. Prismatick 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 Prismatick Dentalcraft, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information. However, Prismatick Dentalcraft, Inc. makes NO warranty of merchantability or any other warranty, expressed or implied, with respect to such information.