



**MATERIAL SAFETY DATA SHEET**

(Revision: 08/04/2008)

**1. Identification of the Substance/Preparation and of the Company/Undertaking.**

- Product Type: Model Stones, Plasters and Die Materials
- Trade Names:

<b>Bitestone</b>	<b>Buffstone</b>	<b>Die Stone, Ivory</b>	<b>FlowStone</b>
<b>Jade Stone</b>	<b>Hard Rock</b>	<b>Handi Mix</b>	<b>Laboratory Plaster</b>
<b>FlowStone, Black</b>	<b>Lean Rock Ivory</b>	<b>Microstone</b>	<b>Mounting Plaster</b>
<b>Prima-Rock</b>	<b>Quickstone</b>	<b>RapidFlask</b>	<b>ResinRock</b>
<b>Mounting Stone</b>	<b>Silky-Rock</b>	<b>Snap Stone</b>	<b>SpinBase</b>
<b>Super Die</b>	<b>CAD Stone</b>	<b>Economy Stone</b>	<b>SpinStone</b>
<b>Orthodontic Stone*</b>	<b>Orthodontic Plaster*</b>	<b>Experimental Premium Die Stone</b>	

- Company: **Whip Mix Corporation**  
**361 Farmington Avenue**  
**Louisville, Kentucky, USA 40209**  
**Emergency Telephone Number: (502) 634-1451**  
**Fax Number: (502) 634-4512**  
**Transportation CHEMTREC 1(800) 424-9300 (U.**  
**Emergencies: International Calls: 1- 703-527-38**

*\* All sections apply to this product, in addition, the items identified by an \* are related specifically to Orthodontic Stone and Orthodontic Plaster only.*

**2. Hazard Identification.**

**These products used in dental labs should pose no potential adverse health effects.**

- Industrial Hygiene Air Monitoring over the past 5 years indicates **no detectable respirable silica** during the manufacturing process of stones, plasters or rocks.
- Acute health effects involve transitory upper respiratory or eye irritation and existing upper respiratory and lung disease such as, but not limited to Bronchitis, Emphysema and Asthma. Lungs and eyes are target organs.
- Chronic health effects from inhalation of crystalline silica has been classified by IARC as carcinogenic for humans (group 1). Inhalation of crystalline silica is also a known cause of Silicosis, a non cancerous lung disease caused by excessive exposure to crystalline silica

**3. Composition/Information on Ingredients.**

<u>Substance</u>	<u>CAS No.</u>	<u>EINECS</u>	<u>Symbols</u>	<u>Concentration, %</u>
Plaster of Paris	26499-65-0	None	None	95 – 100
Crystalline Silica	148-60-7	None	None	<1
Titanium dioxide	13463-67-7	236-675-5	None	< 3

**4. First-Aid Measures.**

- For inhalation: Remove exposed person to fresh air, drink water to clear throat and blow nose to evacuate dust.
- For eyes: Flush with large quantities of water. If irritation persists consult a physician.

**5. Fire-Fighting Measures.**

- Nonflammable. Use whatever measure of extinction is appropriate for surrounding fire. Water may cause product to solidify.
- Will decompose above 1450 °C to SO<sub>2</sub>

**6. Accidental Release Measures.**

- Vacuum spilled material. Avoid creating dust. Wipe surfaces with wet cloth
- Avoid washing down drains as material can plug drains

<b>7. Handling and Storage.</b> <ul style="list-style-type: none"> <li>Minimize dusts generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Seal broken bags immediately. Continue to follow all MSDS Label warnings when handling empty containers.</li> <li>Insure proper respiratory protection</li> </ul>																			
<b>8. Exposure Controls/Personal</b> <ul style="list-style-type: none"> <li>Exposure Limits (as respirable dust). All values are mg/m<sup>3</sup> <table border="1" data-bbox="207 331 1193 430"> <thead> <tr> <th></th> <th><u>OSHA-PEL</u></th> <th><u>ACGIH-TLV, 2008</u></th> </tr> </thead> <tbody> <tr> <td>Nuisance Dust (Respirable)</td> <td>5</td> <td>Withdrawn</td> </tr> <tr> <td>Crystalline Silica (Respirable)</td> <td>0.1</td> <td>0.025</td> </tr> </tbody> </table> </li> <li>Personal protective equipment: None required during normal laboratory use.</li> <li>Engineering controls: Use local ventilation to keep employee exposure to respirable dust below 0.025 mg/m<sup>3</sup>.</li> <li>Respirator: Use respirator approved to NIOSH/MSHA half face with HEPA cartridges for exposures up to 10 times exposure limits.</li> </ul>					<u>OSHA-PEL</u>	<u>ACGIH-TLV, 2008</u>	Nuisance Dust (Respirable)	5	Withdrawn	Crystalline Silica (Respirable)	0.1	0.025							
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<b>9. Physical and Chemical Properties.</b> <ul style="list-style-type: none"> <li>Solid, odorless powder, with variety of colors <table border="1" data-bbox="284 640 1477 766"> <tbody> <tr> <td>Vapor pressure (mmHg)</td> <td>Not Applicable</td> <td>Vapor density (air = 1)</td> <td>Not Applicable</td> </tr> <tr> <td>Melting Point °C</td> <td>145°</td> <td>Boiling Point °C</td> <td>Not Applicable</td> </tr> <tr> <td>pH</td> <td>Not Applicable</td> <td>Specific gravity/density</td> <td>2.5 – 3.5</td> </tr> <tr> <td>Solubility in water</td> <td>0.2%</td> <td>Flash point °C</td> <td>Not Applicable</td> </tr> </tbody> </table> </li> <li>No dangerous reactions are known to occur with proper handling and storage.</li> </ul>				Vapor pressure (mmHg)	Not Applicable	Vapor density (air = 1)	Not Applicable	Melting Point °C	145°	Boiling Point °C	Not Applicable	pH	Not Applicable	Specific gravity/density	2.5 – 3.5	Solubility in water	0.2%	Flash point °C	Not Applicable
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<b>10. Stability and Reactivity.</b> <ul style="list-style-type: none"> <li>Basically stable, may solidify and generate heat if in contact with water. Will decompose above 1450 °C</li> </ul>																			
<b>11. Toxicological Information.</b> <ul style="list-style-type: none"> <li>Route of entry: Inhalation. Inhalation of excessive dust over a prolonged period may result in lung damage.</li> <li>Effects of acute exposure: None known.</li> <li>Carcinogenicity: The International Agency for Research on Cancer (IARC) reports inhaled crystalline silica is a Group 1 carcinogen to humans. NTP has listed crystalline silica as carcinogen.</li> </ul>																			
<b>12. Ecological Data.</b> <ul style="list-style-type: none"> <li>No ecotoxicological studies are available. Generally considered chemically inert in the environment. Not dangerous to water life.</li> </ul>																			
<b>13. Disposal Considerations.</b> <ul style="list-style-type: none"> <li>Waste is not hazardous as defined by RCRA (40CFR 261). Avoid washing down drains as material can plug drain.</li> </ul>																			
<b>14. Transport Information.</b> <ul style="list-style-type: none"> <li>No special transport requirements, non-dangerous goods</li> </ul>																			
<b>15. Regulatory Information.</b> <ul style="list-style-type: none"> <li>SARA III information: For purposes of SARA III reporting, these products contain no ingredients on the extremely hazardous CERCLA, or section 313 lists.</li> <li>SARA Extremely Hazardous Substances 40 CFR 370: Acute</li> <li>CERCLA: This product is not listed with CERCLA (40 CFR 117,302)</li> <li>OSHA Hazardous Communication Standard (29 CFR 1910.1200: Contains material considered hazardous.</li> </ul>																			
<b>16. Other Information.</b> <ul style="list-style-type: none"> <li>HMIS Rating: Health 1 Flammability 0 Reactivity 0 Other 0 Hazard: 4-Severe; 3-Serious; 2-Moderate; 1-Slight; 0-Minimum</li> </ul>																			
Prepared By: Donna Ringo, CIH		Translated By:																	
Date: 8/4/2008		Date:																	