SAFETY DATA SHEET
Regulation (EC) No 1907/2006 (REACH)

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

1.1 Product Identifier
Product Type: Model Stones, Plasters and Die Materials
Trade Names:
- Bitestone
- Jade Stone
- FlowStone, Black
- Prima-Rock
- Mounting Stone
- Super Die
- Orthodontic Stone*
- Buffstone
- Hard Rock
- Lean Rock Ivory
- Quickstone
- Silky-Rock
- CAD Stone
- PL Lab Stone Blue
- Orthodontic Plaster*
- Die Stone, Ivory
- Handi Mix
- Microstone
- Snap Stone
- Economy Stone
- PL DPG Labstone Buff
- FlowStone
- Laboratory Plaster
- ResinRock
- Mounting Plaster
- SpinBase
- SpinStone
- PL Lab Plaster Fast Set

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against
Product Use: Modeling stones and plasters
Uses Advised Against: For professional use only.

1.3 Details of the Supplier of the Substance or Mixture
Manufacturer:
Whip Mix Corporation
361 Farmington Avenue
Louisville, Kentucky, USA 40209
Emergency Telephone Number: (502) 634-1451
Fax Number: (502) 634-4512

EU Importer
Whip Mix Europe GmbH
Wißstrasse 26 – 28
D – 44137 Dortmund
Germany
+49 (0) 231 / 567 70 8-0

1.4 Emergency Telephone Number
Transportation Emergencies: CHEMTREC 1(800) 424-9300 (U.S. and Canada)
                        International Calls: 1-703-527-3887 (Collect calls accepted)
Other Product Information: www.whipmix.com

Section 2 Hazard Identification

2.1 Classification of the Substance or Mixture:

CLP/GHS Classification (1272/2008):

<table>
<thead>
<tr>
<th>Health Hazards</th>
<th>Physical Hazards</th>
<th>Environmental Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Target Organ Toxicity – Repeat Exposure Category 2 (H373)</td>
<td>Not Hazardous</td>
<td>Not Hazardous</td>
</tr>
</tbody>
</table>

EU Classification (67/548/EEC): Not dangerous

2.2 Label Elements
Danger!
Contains crystalline silica, quartz
Section 3 Composition/Information on Ingredients.

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No. / EC Number</th>
<th>%</th>
<th>EU Classification (67/548/EEC)</th>
<th>CLP/GHS Classification (1272/2008)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plaster of Paris</td>
<td>26499-65-0 / 607-950-0</td>
<td>0 – 100</td>
<td>Not dangerous</td>
<td>Not hazardous</td>
</tr>
<tr>
<td>Calcium Sulfate Hemihydrate</td>
<td>10034-76-1 / 600-067-1</td>
<td>0 - 100</td>
<td>Not dangerous</td>
<td>Not hazardous</td>
</tr>
<tr>
<td>Crystalline Silica, Quartz</td>
<td>14808-60-7 / 238-878-4</td>
<td>&lt; 5</td>
<td>Xn R48/20</td>
<td>STOT RE 1</td>
</tr>
<tr>
<td>Ammonium Chloride</td>
<td>12125-02-9 / 235-186-4</td>
<td>&lt; 5</td>
<td>Xn, Xi R22, R36</td>
<td>Acute Tox. 4 H302 Eye Irrit. 2 H319</td>
</tr>
<tr>
<td>Boric Acid</td>
<td>10043-35-3 / 233-139-2</td>
<td>&lt; 2</td>
<td>T R60, R61</td>
<td>Repr. 1B H360</td>
</tr>
</tbody>
</table>

See Section 16 for full text of GHS and EU Classifications.

Section 4 First-Aid Measures.

4.1 Description of First Aid Measures
   Inhalation: Remove exposed person to fresh air. If irritation or other symptoms persist, get medical attention.
   Eyes: Flush with large quantities of water, holding the eyelids apart. If irritation persists consult a physician.
   Skin: No first aid is generally required. Wash skin with soap and water.
   Ingestion: May cause gastrointestinal discomfort and intestinal blockage. If swallowed, drink 1 or 2 glasses of water to dilute. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

4.2 Most Important symptoms and effects, both acute and delayed: May cause eye irritation. Inhalation of dust may cause mucous membrane and respiratory irritation. When mixed with water, this material hardens and becomes very hot – may cause burns.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is required for ingestions.

Section 5 Fire-Fighting Measures.

5.1 Extinguishing Media: Use media appropriate for surrounding fire. Water may cause product to solidify.
5.2 Special Hazards Arising from the Substance or Mixture: The product does not burn but will decompose producing calcium oxide and sulfur oxides.
5.3 Advice for Fire-Fighters: Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus. Cool fire exposed containers with water.

Section 6 Accidental Release Measures.

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate protective clothing as described in Section 8.
6.2 Environmental Precautions: Report releases as required by local and national authorities.
6.3 Methods and Material for Containment and Cleaning Up: Collect using dustless method (HEPA vacuum or wet method) and place in appropriate container for use. Do not use compressed air.
6.4 Reference to Other Sections: Refer to Section 8 for personal protective equipment and Section 13 for disposal.
Section 7 Handling and Storage.

7.1 Precautions for Safe Handling: Avoid contact with eyes. Do not breathe dust. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation and proper dust collection methods to keep exposure level below occupational exposure limits. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, dry, well-ventilated area away from incompatible materials. Protect from physical damage.

7.3 Specific end use(s):

Industrial uses: None identified
Professional uses: Model stones, plaster and die materials for dental technicians.

Section 8 Exposure Controls/Personal Protection

8.1 Control Parameters:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Control Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plaster of Paris</td>
<td>5 mg/m³ TWA OSHA PEL (respirable fraction)</td>
</tr>
<tr>
<td></td>
<td>15 mg/m³ TWA OSHA PEL (total dust)</td>
</tr>
<tr>
<td></td>
<td>4 mg/m³ TWA UK WEL (respirable aerosol)</td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ TWA UK WEL (inhalable aerosol)</td>
</tr>
<tr>
<td>Calcium Sulfate Hemihydrate (as PNOC)</td>
<td>5 mg/m³ TWA OSHA PEL (respirable fraction)</td>
</tr>
<tr>
<td></td>
<td>15 mg/m³ TWA OSHA PEL (total dust)</td>
</tr>
<tr>
<td></td>
<td>4 mg/m³ TWA UK WEL (respirable aerosol)</td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ TWA UK WEL (inhalable aerosol)</td>
</tr>
<tr>
<td>Crystalline Silica Quartz</td>
<td>10 mg/m³ TWA PEL (respirable fraction)</td>
</tr>
<tr>
<td></td>
<td>% Silica + 2 × 30 mg/m³ TWA PEL (total dust)</td>
</tr>
<tr>
<td></td>
<td>% Silica + 2 × 0.025 mg/m³ TWA TLV (respirable fraction)</td>
</tr>
<tr>
<td></td>
<td>0.1 mg/m³ TWA Belgium OEL</td>
</tr>
<tr>
<td>Ammonium Chloride (as fume or respirable dust)</td>
<td>10 mg/m³ TWA, 20 mg/m³ STEL ACGIH TLV (fume)</td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ TWA, 20 mg/m³ STEL Belgium OEL</td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ TWA, 20 mg/m³ STEL UK WEL</td>
</tr>
<tr>
<td>Boric Acid</td>
<td>2 mg/m³ TWA, 6 mg/m³ STEL ACGIH TLV (inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td>2 mg/m³ TWA, 6 mg/m³ STEL ACGIH TLV Belgium OEL</td>
</tr>
<tr>
<td></td>
<td>0.5 mg/m³ TWA, 1 mg/m³ STEL German DFG MAK</td>
</tr>
</tbody>
</table>

8.2 Exposure Controls:

Recommended Monitoring Procedures: None.

Appropriate engineering controls: Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.

Personal Protective Measures

Respiratory protection: If the exposure limits are exceeded a NIOSH approved particulate respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 or other applicable regulations and good industrial hygiene practice.

Skin protection: For prolonged use or in dusty conditions, wear rubber gloves.

Eye protection: Chemical safety goggles if needed to avoid eye contact.

Other: Impervious clothing as needed to avoid contamination of personal clothing.

Section 9 Physical and Chemical Properties.

9.1 Information on basic Physical and Chemical Properties

Appearance: Powder, with variety of colors
Odor: Odorless.
Section 10 Stability and Reactivity.

10.1 Reactivity: None known.
10.2 Chemical stability: Stable
10.3 Possibility of hazardous reactions: None known.
10.4 Conditions to avoid: Avoid unintentional contact with water. Product will harden and produce heat.
10.5 Incompatible materials: Avoid acids and oxidizing agents.
10.6 Hazardous decomposition products: Thermal decomposition (above 2642°F/1450°C) may generate calcium oxide and sulfur dioxide. Crystalline silica will dissolve in hydrofluoric acid and produce silicone tetrafluoride.

Section 11 Toxicological Information.

11.1 Information on Toxicological Effects:

Potential Health Effects:

**Eyes:** Dust may cause mechanical irritation and possible injury.
**Skin:** Dust may cause irritation. When mixed with water, the plaster of paris hardens and becomes hot – may cause skin burns.
**Ingestion:** No adverse effects expected for normal, incidental ingestion. Large amounts may cause gastrointestinal blockage and discomfort.
**Inhalation:** Inhalation of dust may cause irritation to the nose, throat and upper respiratory tract with coughing and shortness of breath.

**Chronic Health Effects:** Excessive inhalation of respirable crystalline silica dust may cause may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function.

**Carcinogenicity:** Crystalline silica quartz is listed as "Carcinogenic to Humans" (Group 1) by IARC and "Known to be a Human Carcinogen" by NTP. None of the other components of this product are listed as carcinogens by OSHA, IARC or NTP.

**Acute Toxicity Data:**
Plaster of Paris: Oral rat LD50 > 2000 mg/kg; Inhalation rat LC50 > 3.26 mg/L/4 hr (structurally similar chemical)
Calcium Sulfate Hemihydrate: Oral rat LD50 > 2000 mg/kg; Inhalation rat LC50 > 3.26 mg/L/4 hr
Crystalline Silica Quartz: Oral rat LD50 >22,500 mg/kg
Ammonium Chloride: Oral rat LD50 1410 mg/kg, Dermal rat LD50 >2000 mg/kg
Boric Acid: Oral rat LD50 >2600 mg/kg, Inhalation rat LC50 >2.03 mg/L/5 hr, Dermal rabbit LD50 >2000 mg/kg

Section 12. Ecological Data.

12.1 Ecotoxicity:
Plaster of Paris: 96 hr LC50 Pimephales promelas>1970 mg/L, 48 hr LD50 daphnia magna >79 mg/L, 72 hr EC50
Pseudokirchnerella subcapitata >79 mg/L (structurally similar chemical)
Calcium Sulfate Hemihydrate: No data available
Crystalline Silica Quartz: 72 hr LC50 Carp - >10,000 mg/L
Ammonium Chloride: 96 hr LC50 Prosopium williamsoni 46.27 mg/L, 48 hr EC50 daphnia magna 136.6 mg/L, 5 day
EC50 Chlorella vulgaris 1300 mg/L
Boric Acid: 96 hr LC50 Pimephales promelas 79.7 mg/L, 48 hr LC50 Ceriodaphnia dubia 102 mg/L

12.2 Persistence and degradability: Biodegradation is not applicable to inorganic substances such as plaster of paris, calcium sulfate hemihydrate and crystalline silica, quartz.
12.3 Bioaccumulative potential: No data available
12.4 Mobility in soil: No data available
12.5 Results of PVT and vPvB assessment: Not required.
12.6 Other adverse effects: Not required.

Section 13. Disposal Considerations.

13.1 Waste Treatment Methods: Dispose in accordance with all national and local regulations.

Section 14. Transport Information.

<table>
<thead>
<tr>
<th>14.1 UN Number</th>
<th>14.2 UN Proper Shipping Name</th>
<th>14.3 Hazard Class(s)</th>
<th>14.4 Packing Group</th>
<th>14.5 Environmental Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT</td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canadian TDG</td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU ADR/RID</td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMDG</td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

14.6 Special precautions for User: Not applicable
14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code: Not applicable – product is transported only in packaged form.

Section 15 Regulatory Information.

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

US Regulations

SARA Section 313 (40 CFR 372): This product contains the following toxic chemical(s) subject to reporting requirements of SARA 313: None
SARA Section 311/312 (40 CFR 370) Hazard Categories: Chronic Health

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA inventory

California: This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity:

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Percentage</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica</td>
<td>14808-60-7</td>
<td>&lt;5%</td>
<td>Cancer</td>
</tr>
</tbody>
</table>

Canadian Regulations

Canadian Workplace Hazardous Materials Information System (WHMIS): Class D Division 2A (Very Toxic material causing other toxic effects)

Canadian Environmental Protection Act: None at this time.

This SDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the SDS contains all of the information required by the CPR.
16. Other Information.

HMIS Rating: Health 1* Flammability 0 Reactivity 0
Hazard: 4-Severe; 3-Serious; 2-Moderate; 1-Slight; 0-Minimum

EU Classes and Risk Phrases for Reference (See Sections 2 and 3)
T Toxic
Xi Irritant
Xn Harmful
R22 Harmful if swallowed.
R36 Irritating to eyes.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R60 May impair fertility.
R61 May cause harm to the unborn child.

CLP/GHS Classification and H Phrases for Reference (See Section 3)
Acute Tox 4 Acute Toxicity Category 4
Eye Irrit 2 Eye Irritation Category 4
Repr 1 B Toxic to Reproduction Category 1B
STOT RE 1 Specific Target Organ Toxicity Repeat Exposure Category 1