SAFETY DATA SHEETS

This SDS packet was issued with item:
077315823

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071598937 071642800 071658343 076675714 077259708 077259765 077259807 077259815 077276603 077276611
077276629 077277023 077277031 077277049 077277064 077277668 077277684 077277692 077277700 077277718
077277809 077277817 077277825 077277833 077277841 077277940 077277957 077277965 077277973 077278005
077278013 077278021 077278047 077283708 077283716 077283724 077283757 077283898 077283906 077283914
077286008 077286115 077286206 077286214 077286222 077287436 077287444 077287451 077287501 077287519
077287550 077287568 077287576 077287964 077288269 077291974 077291982 077291990 077293996 077294002
077294010 077294028 077294101 077294119 077294150 077294168 077294176 077297807 077299092 077299126
077299183 077299902 077299910 077299928 077309008 077309016 077309024 077309032 077309040 077309057
077309065 077309073 077312598 077312622 077312655 077312689 077313174 077313208 077313232 077313265
077314917 077314941 077314974 077315005 077315138 077315146 077315153 077315161 077315179 077315799
077325046 273015963

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

076320113 076320121 076320139 076320147 076320170 076320188 077324544
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
- Buffstone
- Die Stone, Ivory
- FlowStone
- Jade Stone
- Hard Rock
- Handi Mix
- Laboratory Plaster
- FlowStone, Black
- Lean Rock Ivory
- Microstone
- Mounting Plaster
- Prima-Rock
- Quickstone
- RapidFlask
- ResinRock
- Mounting Stone
- Silky-Rock
- Snap Stone
- SpinBase
- Ulti Rock
- CAD Stone
- Economy Stone
- SpinStone
- Orthodontic Plaster*
- PL Lab Stone Blue
- PL DPG Labstone Buff
- PL Lab Plaster Fast Set
- Orthodontic Stone*

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

**Other Product Information:** www.whipmix.com

Section 2 Hazard Identification

2.1 Classification of the Substance or Mixture:

<table>
<thead>
<tr>
<th><strong>CLP/GHS Classification (1272/2008):</strong></th>
<th><strong>Health Hazards</strong></th>
<th><strong>Physical Hazards</strong></th>
<th><strong>Environmental Hazards</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Not Hazardous</strong></td>
<td><strong>Not Hazardous</strong></td>
<td><strong>Not Hazardous</strong></td>
<td></td>
</tr>
</tbody>
</table>

2.2 Label Elements

None required

2.3 Other Hazards: None

Section 3 Composition/Information on Ingredients.

<table>
<thead>
<tr>
<th><strong>Substance</strong></th>
<th><strong>CAS No. / %</strong></th>
<th><strong>CLP/GHS Classification</strong></th>
</tr>
</thead>
</table>

Plaster of Paris (Calcium Sulfate Hemihydrate)  26499-65-0 / 607-950-0  90 – 100  Not hazardous
Ammonium Chloride  12125-02-9 / 235-186-4  < 5  Acute Tox. 4 H302  Eye Irrit. 2 H319

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 information.

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>Material</th>
<th>EC Number (CAS)</th>
<th>OSHA PEL (respirable fraction)</th>
<th>UK WEL (respirable aerosol)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plaster of Paris (Calcium Sulfate Hemihydrate)</td>
<td>26499-65-0 / 607-950-0</td>
<td>5 mg/m³</td>
<td>4 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

Ammonium Chloride (as fume or respirable dust) | 10 mg/m³ TWA, 20 mg/m³ STEL ACGIH TLV (fume)  
| 10 mg/m³ TWA, 20 mg/m³ STEL Belgium OEL  
| 10 mg/m³ TWA, 20 mg/m³ STEL UK WEL |  

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.  
Odor threshold: Not applicable  
Melting point/freezing point: 293°F / 145°C  
Flash point: Not applicable  
Flammability (solid, gas): Not applicable  
Flammable limits: LEL: Not applicable  
Vapor pressure: Not applicable  
Relative density: 2.5 – 3.5  
Partition coefficient: n-octanol/water: Not applicable  
Decomposition temperature: 2642°F / 1450°C  
Explosive Properties: Not applicable  

9.2 Other Information: None available  

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.  

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:** None known. **Carcinogenicity:** None of the components of this product are listed as carcinogens by OSHA, IARC, NTP or the EU CLP.

**Acute Toxicity Data:**
Plaster of Paris: Oral rat LD50 > 2000 mg/kg; Inhalation rat LC50 > 3.26 mg/L/4 hr (structurally similar chemical)
Ammonium Chloride: Oral rat LD50 1410 mg/kg, Dermal rat LD50 > 2000 mg/kg

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**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)
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

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

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**Section 13. Disposal Considerations.**

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

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**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>
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<tr>
<td>Canadian TDG</td>
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<tr>
<td>EU ADR/RID</td>
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<tr>
<td>IMDG</td>
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<tr>
<td>IATA/ICAO</td>
<td>Not Regulated</td>
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</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.

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**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: Not Hazardous

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: None known

### 16. Other Information.

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

- **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
  - H302 Harmful if swallowed.
  - H319 Causes serious eye irritation.

<table>
<thead>
<tr>
<th>Prepared By:</th>
<th>Translated By:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Denise A. Deeds</td>
<td></td>
</tr>
</tbody>
</table>

**Date:** August 19, 2015