MATERIAL SAFETY DATA SHEET

PRODUCT: PHOENIX

1. IDENTIFY/DESCRIPTION
   Identity: PHOENIX
   Manufacturer: Soil & Plant Solutions LLC
                 1316 South 400 East – Unit 3-D
                 Saint George, UT 84790
   Internet: www.soilplantsolutions.com
   Emergency Phone Number: Tel: (608) 795-4266; (608) 628-2654
   Date: 5/11/11
   Supersedes: New
   Material Description: Calcium Carbonate Suspension

2. HAZARDS IDENTIFICATION
   Appearance: Non-combustible, odorless, white suspension.
   Primary routes of entry: Skin contact, eye contact, ingestion and inhalation. (see section 4 below for first aid measures.) Care should be taken in handling this material to appropriate protective clothing and eye protection.
   Hazard Classification: None

3. COMPOSITION/ INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>62%</td>
</tr>
<tr>
<td>Crystalline Silica, Quartz (impurity)</td>
<td>14808-60-7</td>
<td>0.06-1.25%</td>
</tr>
<tr>
<td>Other</td>
<td>--------------</td>
<td>Balance</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES
   Eye Contact: In case of contact, immediately flush eyes with water for a minimum of 15 minutes. If irritation persists, seek medical attention.
   Skin Contact: Exposure may cause skin irritation. Flush skin with water. If irritation persists, seek medical attention.
   Carcinogenicity: This product is not listed as a carcinogen by the IARC, NTP, or OSHA.
   Ingestion: No adverse effect is expected. If ingested, seek medical advice.
   Inhalation: Upon drying, calcium carbonate can form a dust hazard. If exposure causes irritation, remove individual to fresh air. Aid in breathing, if necessary seek medical attention.

5. FIRE FIGHTING MEASURES
   Extinguishing media: Material is non-combustible. All extinguishing media can be used. Use suitable media appropriate to the surrounding fire.
   Unsafe extinguishing media: None
   Special exposure hazards: None
   Special protective equipment: Firefighters should wear protective clothing and use equipment that is
suitable for the materials involved in the surrounding fire.

6. **ACCIDENTAL RELEASE MEASURES**

Environmental precautions: This product does not present any particular risk to the environment. Refer to applicable national, state and local regulations prior to washing into a sanitary drain.

Clean up methods: Materials can be swept, scooped or vacuumed into an appropriate container for safe disposal.

7. **HANDLING AND STORAGE**

Handling: Product has a high specific gravity. Use caution when lifting.

Storage: Store in water tight containers and avoid freezing temperatures.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering controls: Use mechanical ventilation

Eye protection: Safety glasses with side shields

Skin and Body protection: Light weight protective clothing and gloves

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices.

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td>5 mg/m³ Respirable Fraction</td>
<td>10 mg/m³ Total Dust</td>
</tr>
<tr>
<td></td>
<td>15 mg/m³ Total Dust</td>
<td></td>
</tr>
<tr>
<td>Crystalline Silica, Quartz</td>
<td>(10 mg/m³)/(%SiO₂ + 2)</td>
<td>0.05 mg/m³ Total Dust</td>
</tr>
<tr>
<td>(impurity)</td>
<td>Respirable Fraction</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(30 mg/m³)/(SiO₂ + 2)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Dust</td>
<td></td>
</tr>
</tbody>
</table>

Unless otherwise noted, all Personal Exposure Limits (PEL) and Threshold Limit Values (TLV) are reported as 8 hour time weighted averages.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White liquid suspension

Density: 1.67 g/mL

pH (5% w/w suspension): 8.4 – 10.2

Water solubility (20°C): 1.3 mg/L

10. **STABILITY AND REACTIVITY**

Stability: Stable, however, if separation occurs, suspension can be mixed

Conditions to avoid: Do Not Freeze

Materials to avoid: Do Not Mix with materials that will lower the pH of suspension (acids)

Hazardous decomposition products: None

11. **TOXICOLOGICAL INFORMATION**

Eye irritation: Calcium Carbonate may cause temporary eye irritation

Skin irritation: Calcium Carbonate is a moderate skin irritant and may dry skin and mucous membranes.

Sensitization: Does Not cause sensitization

Ingestion: Calcium Carbonate oral LD(50) is 6450 mg/kg

Inhalation: Inhalation of excessive quantities of dust for prolonged and continuous periods of time, may aggravate existing asthmatic or respiratory conditions. (Consult: Dangerous Properties of Industrial Materials)
12. ECOLOGICAL INFORMATION
   Mobility: Inert material
   Persistence/Degradability: Non-degradable
   Bio-accumulative potential: None

13. DISPOSAL CONSIDERATIONS
   Disposal: Dispose in accordance with local, state and national regulations. Under the Resource Conservation and Recovery Act (RCRA, 40 CFR 261) ground limestone is a non-hazardous waste.

14. TRANSPORTATION INFORMATION
   DOT: Not Regulated

15. OTHER INFORMATION
   The information contained in this Safety Sheet is to the best of Soil & Plant Solution’s (SPS’s) knowledge, as of the date indicated, believed to be accurate and reliable. However, no representation, warranty or guarantee is implied or expressed regarding the accuracy, reliability or completeness of this information of the use of the product. Nothing contained herein should be construed as a recommendation to use the product in conflict with national or local regulations or existing patents covering any material or its use.