



## SAFETY DATA SHEET PRODUCT: PHOENIX

### 1. IDENTITY/DESCRIPTION

Identity: PHOENIX  
Manufacturer: Soil & Plant Solutions LLC  
23 East 675 South  
Ivins, UT 84738  
Internet: [www.soilplantsolutions.com](http://www.soilplantsolutions.com)  
Emergency Phone Number: Tel: (608) 795-4266; (608) 628-2654  
Date: 4/1/2016 Supersedes: 3/23/15  
Material Description: Calcium Carbonate Suspension

### 2. HAZARDS IDENTIFICATION

Note: Crystalline silica is present as an impurity in natural limestone. In the respirable form and size range, crystalline silica is a carcinogen and may cause silicosis. However, this product is a liquid suspension and crystalline silica is not available for inhalation. Under all anticipated uses, the crystalline silica would remain in suspension and would not be inhaled.

Hazard Classification: None

Signal Word: None.

Hazard Statements: None

Precautionary Statements: None

Other hazards which do not result in classification: None.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

| Components  | CAS Number | Weight %   |
|---|------------|------------|
| Limestone   | 1317-65-3  | 62%        |
| Crystalline Silica, Quartz (impurity; wet, not respirable)  | 14808-60-7 | 0.06-1.25% |
| Other*  | -----      | Balance    |
| *Balance of ingredients are present at less than 1% in concentration (or 0.1% for carcinogens, reproductive toxicants, or respiratory sensitizers). |            |            |

### 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.  
Ingestion: No adverse effect is expected. If ingested, seek medical advice.

Inhalation: This product is a liquid suspension and not anticipated to form a dust or vapor. If inhalation of liquid occurs, 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 disposal.

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.

| Components                            | OSHA PEL   | ACGIH TLV                         |
|---------------------------------------|--|-----------------------------------|
| Calcium Carbonate (limestone)         | 5 mg/m <sup>3</sup> Respirable Fraction<br>15 mg/m <sup>3</sup> Total Dust   | 10 mg/m <sup>3</sup> Total Dust   |
| Crystalline Silica, Quartz (impurity) | (10 mg/m <sup>3</sup> )/(%SiO <sub>2</sub> + 2)<br>Respirable Fraction<br>(30 mg/m <sup>3</sup> )/(SiO <sub>2</sub> + 2)<br>Total Dust | 0.05 mg/m <sup>3</sup> Total Dust |

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

Odor: NA

Odor Threshold: NA

Boiling point: NA

Melting Point/ Freezing Point: NA

Evaporation Rate: NA

Flammability: NA

Flash point: NA

Specific Gravity (H<sub>2</sub>O = 1): 13.9lbs/gallon

Solubility in Water: 1.3 mg/L

Formulation: Liquid

Vapor Pressure: NA

|                            |    |
|----------------------------|----|
| Vapor Density:             | NA |
| Relative Density:          | NA |
| Partition Coefficient:     | NA |
| Auto-Ignition Temperature: | NA |
| Decomposition Temperature: | NA |
| Viscosity:                 | NA |
| Explosive Properties:      | NA |
| Oxidising Properties:      | NA |
| Molecular Weight:          | NA |

**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**

Routes of exposure: Inhalation is not a significant route of exposure in occupational and other settings. Dermal exposure should be minimal with recommended personal protective equipment (see section 8). This product is not intended for ingestion.

Symptoms related to the physical, and chemical and toxicological characteristics: None anticipated.

Delayed and immediate effects as well as chronic effects from short and long-term exposure: Skin contact may result in dryness and moderate local irritation.

Acute health hazards (calcium carbonate):

- Oral LD<sub>50</sub>: 6,450 mg/kg of body weight
- Dermal LD<sub>50</sub>: No information found
- Inhalation LC<sub>50</sub> (rat): No information found
- Dermal irritation/corrosivity: Nonirritating, noncorrosive
- Eye irritation: Minimal irritation, reversible by 72 hours
- Mutagenicity: No information found

Chronic health hazards: No chronic effects have been reported in the literature.

Reproductive effects: In pregnant rats exposed orally to 625 mg/kg-d, there were no adverse effects reported.

Carcinogenicity: Calcium carbonate is not listed as a known or suspected carcinogen by OSHA, NTP, or IARC. Respirable crystalline silica, a component of limestone, is classified as carcinogenic by IARC, NTP, and ACGIH. These classifications are based on sufficient evidence of carcinogenicity in certain experimental animals and on selected epidemiological studies of workers exposed via inhalation to crystalline silica. This product is a liquid suspension and silica would not be available for inhalation; therefore this exposure route is not relevant for this product.

**12. ECOLOGICAL INFORMATION**

|                           |  |
|---------------------------|--|
| Biodegradability:         | Readily biodegradable  |
| Aquatic toxicity:         | <i>Gambusia affinis</i> (Western mosquitofish) LC <sub>50</sub> (24-96-hr)= ?56,000 mg/L |
| Phytotoxicity:            | No information found   |
| Mobility in soil:         | No information found   |
| 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.