



## **MATERIAL SAFETY DATA SHEET: PETRA-LITE™**

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### **SECTION I: Product Identification**

Product Name: Petra-lite™: hydraulic light-weight cement  
Product Code: 100004  
Emergency Contact: 423-903-1488

Classification: Mixture of cement, polymer and inert materials  
D.O.T. hazard class: Not listed  
HMIS Rating: Health: 1  
Flammability: 0  
Reactivity: 0

### **SECTION II: Components**

<b>Ingredient</b>	<b>CAS#</b>	<b>Wt%</b>	<b>PEL</b>	<b>TLV</b>	<b>STEL</b>	<b>Notes</b>
Portland Cement	65997-15-1	20-30	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>		see note 1
Silicon Dioxide	14808-60-7	40-50	.1 mg.m <sup>3</sup>	.1 mg/m <sup>3</sup>		see note 1
Silica-amorphous, fumed	69012-64-2	3-5				
Ceramic micro spheres		20-30				
Polymer Powder		0-5	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>		see note 1
Colorants		0-4	not established			see note 2
Additions		0-4	not established			see note 2

Note 1: PEL and TLV as respirable dust  
Note 2: Contents vary per color of product.

### **SECTION III: Physical Properties**

Boiling point: na Vapor pressure: na  
Melting point: na Vapor density: na  
Evaporation Rate: na Specific gravity: >1.3  
Water solubility: slight Non-volatile: 99+ %  
Physical appearance: gray powder

### **SECTION IV: Fire and Explosion Hazard Data**

Flash Point: na Explosion limits (LEL): na UEL: na

Extinguishing media: not flammable; no special treatment required

Hazardous decomposition products: none

Firefighting procedures: no special procedures required.

Special fire and explosion hazards: none

## **SECTION V: Health Hazard Information**

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**Primary Route(s) of entry:** inhalation, skin contact, eye contact

**Effects due for over exposure:**

- Eyes: May cause irritation and abrasion to cornea. Symptoms include stinging, tearing and redness.
- Skin: May cause irritation, burning, redness or drying of skin. Pre-existing conditions can be aggravated by use of this product.
- Respiratory: Prolonged or repeated exposure may cause lung injury including silicosis. This product contains crystalline silica which has caused cancer in laboratory after prolonged exposure. Some human studies indicate potential for lung cancer.
- Ingestion: Although not likely to occur with proper uses of product, ingestion of large amounts of this material may cause intestinal distress.

**First Aid:**

- Eyes: Flush gently with water. If symptoms persist or vision is impaired, seek medical attention.
- Skin: Wash affected area with soap and water. Contaminated clothing should be washed before reuse. If irritation persists, seek medical attention.
- Respiratory: Remove individual to fresh air. If symptoms persist, seek medical attention.
- Ingestion: Do not induce vomiting. Drink plenty of water and seek medical attention for discomfort.

## **SECTION VI: Chemical Reactivity**

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**Stability:** Material is stable but should be kept dry. Contact with water will produce some heat generation and solidification of product.

**Hazardous Polymerization:** Will not occur.

**Incompatibility:** Dissolves in hydrofluoric acid producing corrosive silicon tetrafluoride gas. Powerful oxidizers will react with the silicates in this product, acids will neutralize other components.

**Conditions to avoid:** Wet or damp storage and strong oxidizers.

**Hazardous Decomposition Products:** None.

## **SECTION VII: Spill Procedures**

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**Small spill:** Clean up spill; avoid generating dust.

**Large spill:** Clean up spill, avoid generating dust.

**Waste disposal method:** Generally, material can be disposed in a local landfill; however, any disposal practice must be in compliance with local, state or federal agency. For further information contact your waste agency of the United States Environmental Protection Agency's RCRA hotline (1-800-424-9346).

### **SECTION VIII: Special Protection Information**

**Respiratory Protection:** Use an approved respirator with dust protection, replace dust filters often.

**Ventilation:** Access to fresh air is important, but avoid any ventilation procedures which will produce unnecessary air-borne dust.

**Gloves:** If necessary, any latex, rubber, nitrile, neoprene or other type of water proof glove should provide adequate protection.

**Eye protection:** In heavy dust conditions, use goggles.

**Other protective equipment:** Wear appropriate work clothing to prevent skin contact. Wash clothing before reuse.

### **SECTION IX: Special Precautions**

**Handling and storage:** Avoid dust generation, store in dry place. Treat empty containers with the same hazard precautions given in this data sheet.

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For further information, contact Townsend Atelier, LLC 423-903-1488

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