

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTITY

| | | | |
|--|------------------|-----------------------------------|---------------------|
| Manufacturers Name: | BioFill | Chemical Family: | Amorphous Silicates |
| Emergency Telephone Number: | 855-444-8873 | Chemical Name: | Does Not Apply |
| Person Responsible for Preparation: | John Pla | Formula: | Does Not Apply |
| Common Name: | Pumice Aggregate | Trade Name & Synonyms: | Pumice, Osolite |

SECTION 2 - HAZARDOUS INGREDIENTS

| Hazardous Component | CAS # | % Typical | TLV (units) | PEL (units) |
|---------------------------|--------|-----------|---------------------|--------------------|
| AMORPHOUS SILICATE | unkown | 75-90 | 3mg/m ³ | 5mg/m ³ |
| FELDSPAR** | unkown | 0 - 7 | 3mg/m ³ | 5mg/m ³ |
| CALCITE CALCIUM CARBONATE | unkown | 0 - 7 | 10mg/m ³ | 5mg/m ³ |
| DIOPSIDE** | unkown | 0 - 1 | 3mg/m ³ | 5mg/m ³ |

*Respirable fraction only. **Exposure values are for nuisance particulates.

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration (OSHA).

TLV: Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists (ACGIH).

SECTION 3 - PHYSICAL DATA

| | | | |
|---|----------------|--|---|
| Boiling Point: | Does Not Apply | Evaporation Rate (n=Butyl Acetate): | Does Not Apply |
| Specific Gravity (H₂O = 1): | 0.90 - 1.4 | Percent Soluble in Water: | Insoluble |
| Vapor Pressure (mm = Hg): | Does Not Apply | Reactivity in Water: | None |
| Percent Volatile by Volume: | 0% | Appearance and Odor: | White volcanic rock. Rough texture. No odor. |
| Vapor Density (Air = 1): | Does Not Apply | | |

Hazardous Material Information System Identifier (HMIS)

Health = 1* Flammability = 0 Reactivity = 0 Personal Protection = X

SECTION 4 - FIRE AND EXPLOSION DATA

| | | | |
|---|--|--|----------------|
| Flash Point: | Will Not Ignite | Auto Ignition Temperature: | Does Not Apply |
| Extinguishing Media: | Does Not Apply | Unusual Fire and Explosion Hazards: | None |
| Flammable Limits in Air (% by Volume): | Lower: Does Not Apply Upper: Does Not Apply | Special Fire Fighting Procedures: | None |

SECTION 5 - HEALTH INFORMATION

Signs and Symptoms of Exposure:

- (1) Acute Overexposure – Congestion of Nasal Passages and Respiratory Systems. Excessive Dust May Cause Abrasion of Cornea.
- (2) Chronic Overexposure – Excessive Exposure by Inhalation Over an Extended Period of Time May Result in the Development of Pulmonary Diseases Including Pneumonconiosis, Silicosis, or Lung Cancer. Dust Can Cause Inflammation of the Lining Tissue of the Interior of the Nose and Inflammation of the Cornea.

SECTION 5 - HEALTH INFORMATION CONTINUED

Medical Conditions Generally Aggravated by Exposure – Respiratory Disorders or Diseases May Be Aggravated by Exposure to Dust of This Material.

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| Chemical / Component Listed as Carcinogen: | Quartz |
| | <u>NTP</u> : Yes <u>IARC</u> : Yes <u>OSHA</u> : No |
| Other Exposure Limits: | None |

Emergency & First Aid Procedures for Indicated Routes of Entry:

Inhalation – Remove from Exposure. If Not Breathing, Give Artificial Respiration. If Breathing is Difficult, Give Oxygen. Consult a Physician.

Eyes – Wash Eyes with Running Water. Do Not Rub Eyes! If Irritation Persists, Obtain Medical Assistance.

SECTION 6 - REACTIVITY DATA

| | |
|--|----------------|
| Stability: | Stable |
| Conditions to Avoid: | Does Not Apply |
| Incompatibility (Materials to Avoid): | None |
| Hazardous Decomposition or Combustion Products: | None |
| Hazardous Polymerization: | Will Not Occur |

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Leaked or Spilled – Clean – Up of Spills May Require Personal Protective Equipment to Prevent Dust Exposures. See Section 8.

Waste Disposal Method – If This Material, As Provided by the Manufacturer, Becomes a Waste, It Does Not Meet the Criteria of a Hazardous Waste as Defined by the Environmental Protection Agency Under the Authority of the Resource Conservation and Recovery Act (40 CFR 261). Dispose of in Accordance with Federal, State and Local Regulations.

SECTION 8 – PERSONAL PROTECTION INFORMATION

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|--|--|
| Respiratory Protection: | NIOSH / MSHA Approved for Protection Against Silica and Nuisance Dusts. |
| Ventilation: | General or Local Exhaust to Maintain Exposure Below TLV / PEL. |
| Protective Gloves: | To Protect from Abrasion. |
| Eye Protection: | Safety Glasses, Goggles, or Face Shield, When Necessary to Prevent Eye Contact |
| Other Protective Clothing or Equipment: | None |

SECTION 9 – SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing – Should be Stored in a Manner to Prevent Accumulations of Airborne Dust.

Other Precautions – Warning: This Product Contains a Chemical Known to the State of California to Cause Cancer.

SECTION 10 – TRANSPORTATION

Pumice is not considered to be a hazardous material per the following regulations:
40 CFR, IMCO, Tariff 6d, IATA, Military Air

Shipping Name: Pumice