



A product of The Premier Green

CANNABACEAE SOIL AMENDMENT



The Premier Green is an all-natural line of products from The Premier Source.

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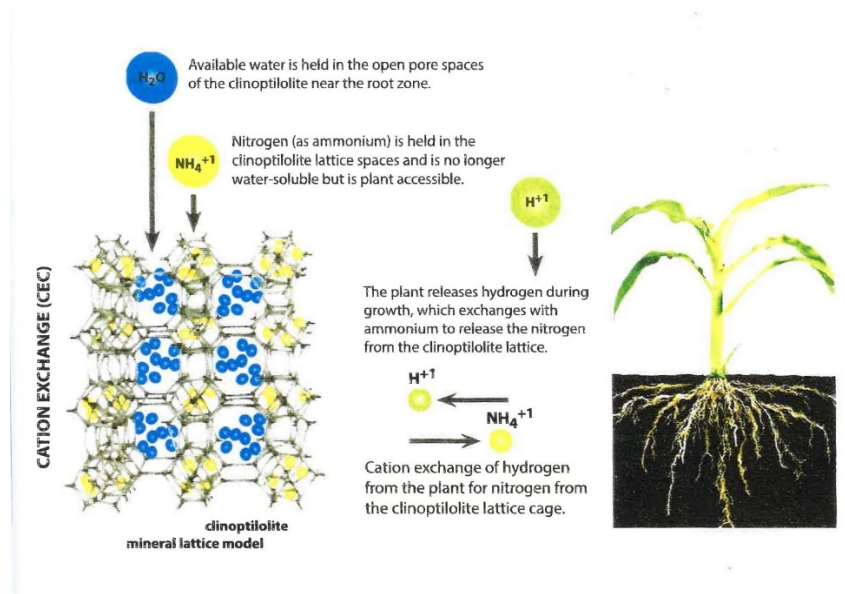
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Technical Data Sheet

Compost and Soil Amendment

Description: Empirical Formula: (K, Ca, Na) 20 Al₂O₃ 10SiO₂ 6H₂O, Cas No. 12173-10-3

Zeolite Premier is 100% all natural Clinoptilolite Zeolite powered by Absorb-Z. Zeolite is a natural volcanic mineral, microporous with an open, stable, three-dimensional honeycomb structure negatively charged. The structure loosely holds Cations (negatively charged ions) that are available for exchange. The ability to exchange one cation for another is called "Cation Exchange Capacity (CEC)", this allows the Clinoptilolite to act as nature's sponge, allowing larger molecules to be separated from smaller molecules.



Natural Clinoptilolite Zeolite is US FDA Classified as "GRAS" (generally regarded as safe) under FDA title 21 CFR part 182.1279 and 40 CFR part 180.1001. Used as a soil amendment increases crop yield and fruit size by absorbing fertilizer run off, water, prevents hydric stress, controls acidity or alkalinity by balancing Ph, retains Nitrogen in the root zone plant accessible but not soluble in water, holds fertilizer and water in the root zone, controls odors and flies during the composting process,

Composition

Silica SiO₂ 67% Alumina Al₂O₃ 11% Calcium CaO 9.72% Potassium K₂O 4.86% Iron Fe₂O₃ 4.16% Sodium Na₂O 0.89% Magnesium MgO 0.89% Titanium TiO₂ 0.64% Barium BaO 0.24% Manganese MnO 0.17% Sulfur S₂O₃ 0.11 % Strontium SrO 0.0954% Chlorine Cl 0.073% Zirconium ZrO₂ 0.069% Copper Cu 0.05% Rubidium Rb₂O 0.037% Zinc ZnO 0.023% Yttrium Y₂O₃ 0.019% Carbon C₆₀ 0.012%

Physical Properties

- Odor: Odorless
- Melting Point: 1800 degrees F
- Mohs Hardness: 3.5 - 4.0
- Appearance: Dry, White to Off-White
- Ph: 7
- Solubility in Water: 0
- Specific Gravity: 1.5 - 1.7
- CEC: 2.65 - 2.8 meq/g
- Moisture content: 5%

General Precautions: Avoid breathing dust, use adequate ventilation, avoid eye contact, use safety glasses, gloves, and dust respirator.



Effects on Cannabis & Hemp

Benefits:

- **Very High-Quality Horticulture Grade Clinoptilolite Zeolite with Fe 97.90%.**
- **Superior absorption and adsorption reduce water and fertilizer use by retaining more nutrients and moisture in the root zone.**
- **Porous structure promotes active, living soil environment keeping it aerated and moist over time.**
- **Non-acidic, when mixed with fertilizer.**
- **Buffers pH levels and may reduce the need for lime.**
- **Removes heavy metals from water.**
- **Removes heavy metals from growth medium.**
- **Retains 60% of its weight in water.**
- **Retains and holds fertilizer to prevent run off.**
- **Allows cannabis plants access to more nutrients and moisture.**
- **Reduces compaction of growth medium and soil.**
- **Does not break down, remains in soil, improving nutrient retention.**
- **Acts as a slow-release conduit of fertilizer**
- **Improves loss of dry matter and oil yield during drought conditions.**

In testing, 10-15% Zeolite Premier added to peat-based growth medium increased bud yield from 60g – 160g (250% increase).



Soil Amendment Application Rates

The application of Zeolite Premier significantly improves soil fertility, physical and chemical properties, and is very useful in drought conditions. It

absorbs 60% of its weight in water, holds nutrients in its pores, and retains them in the root zone to be used by plants when required.

Application

Sands	Two (2) tons per acre
Sandy Loam	One (1) - two (2) tons per acre
Poor Clays	One (1) ton per acre
Top Dressing	One (1) ton per acre
Top Dressing (after aeration)	One (1) - 1,000 - 3,200 lbs. per acre

Zeolite Premier should be placed 1- 3 inches from the surface, just in the root zone. Plow the soil, along with the Zeo-Green, with either scarifiers, rotary ploughs, disc ploughs, or chisel plows, attempting to not plow the Zeolite Premier too deep.

Right after application of the Zeolite Premier, the area must be fertilized as usual and heavily watered so the Zeolite Premier can absorb nutrients and water.

It is suggested to preblend the Zeolite Premier with fertilizer when applying.

Available in granular 8-pound bags, 25-pound bags or bulk, one-ton super sacks.

Watering crops with a water supply knowingly or unknowingly contaminated with Arsenic and other heavy metals can cause the crops to uptake these metals into the plant. Zeolite Premier's affinity to Arsenic and heavy metals will capture and hold these toxins preventing the plant from absorbing them.



Contact:

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