



## Comparison of Perfect Blend Organics with Sustane Fertilizers

### PERFECT BLEND ORGANICS

**Manufacturing Technology** PBO is made in a state-of-the-art facility that uses modern computer-controlled operations to manufacture one ton of finished product every eight minutes. The PBO process builds Complex Nutrition-Enabling Fertilizers (CNEFs). PBO is the world leader in the manufacture of high-quality and high-transformation-efficiency fertilizers.

**Speed and Efficiency of Conversion** PBO fertilizers are homogenized and pH-balanced at the optimum level for microbial use. PBO fertilizers are highly efficient at swift transformation from a solid into a complex nutrition soil acid gel that is able to fully nutritionalize soil microbes and plants. The base feedstock of PBO quickly transforms into stable, nutrient-rich soil acid gels that provide long-term turf nutrition.

**Pathogens** PBO products are certified free of soil and human pathogens. PBO research has found that soils usually contain adequate levels of bacteria and fungi and only require nutrients specifically tailored for microbes. With the exception of deliberately added soil-beneficial microbes at the buyer's request, PBO is free of any microbes. PBO has USDA certification as being pathogen-free of the bird virus.

**Feedstock** PBO uses high-grade layer hen manure that does not contain any additives or litter. It is process-sterilized before being used as a feedstock to kill weed seeds, spores and insect eggs. It is not subject to recontamination before it is processed as a finished fertilizer.

**Odor-Neutralized** PBO fertilizers are odor-neutralized using a two-step organic process.

#### **Homogenized – pH-Balanced – 100% Chelated**

PBO fertilizers are homogenized with homogeneous pH balancing, ensuring maximum efficiency in transforming from a solid into soil acid gels. They are a 100% hydrolyzed and chelated product.

### SUSTANE

**Manufacturing Technology** Sustane uses the decades-old concept of composting in the open air. This practice is subject to contamination and the introduction of weed seeds and insect spores. The process is wasteful of nutrients, as the majority of nutrients are volatilized as methane, ammonia and CO<sub>2</sub> while increasing concentrations of salts.

**Speed and Efficiency of Conversion** Sustane blends different-pH materials into a single product. This means that the speed and efficiency of conversion from a solid into a tea is diminished. Hydrolyzed feather meal, a primary ingredient in all Sustane fertilizers, is primarily keratin, which degrades very slowly. As a result, soil acid gels/solutions are often formed without full complex nutritional elements.

**Pathogens** Sustane does not reveal the fact that their compost is not sterilized. Non-sterilized compost may carry harmful bacterial contaminants.

**Feedstock** Sustane uses poultry manure contaminated with bedding litter. It is not process-sterilized, and it is subject to recontamination with bird excrement and insect larva before processing, leaving weed seeds and larva intact in the fertilizer.

**Odor-Neutralized** Sustane is not odor-neutralized.

**Homogenized – pH-Balanced – 100% Chelated** Sustane fertilizers are not homogenized or 100% chelated, nor are they pH-balanced. These factors serve to restrict the efficiency of transformation into soil acid gels and soil solutions.

