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"Your source in Texas for EcoAgricultural Farming, Ranching & Gardening Supplies"*

## BIOZOME

### What is BioZome?

BioZome is a highly concentrated blend of beneficial natural microorganisms put together by Dr. Carl Oppenheimer after 40 years of research. BioZome has been proven to promote faster growth, decrease seed germination time, reduce transplant shock, produce more blooms and increase fruit production. Plants grown with BioZome exhibit healthier roots and increased disease and pest resistance. The microorganisms are primitive "Archaeobacteria" collected from salt pans, hot springs, and volcanic regions all over the world. They are hardy and capable of living in a wide range of environmental conditions. Also, due to their primitive nature they coalesce to work as a team, yielding a high efficiency ratio in the soil.



BioZome microorganisms have been proven to dissolve silicates and clean up hydrocarbon based (petroleum products and pesticides) contaminants. Igneous rocks which comprise 90% of the Earth's crust are made of silicate compounds. BioZome decomposes rocks containing silicates freeing trace minerals and increasing soil mass. As mentioned earlier, several of the microorganisms in BioZome have been collected from volcanic regions, therefore they can secrete the enzymes necessary to degrade rock particles by breaking silicate bonds. Repeated yearly application of BioZome and tilling will increase soil depth.

Pesticides which contain non-chlorinated hydrocarbon compounds can remain in soil for a long time reducing soil fertility. BioZome hastens their decay. Soil fertility is reestablished sooner when BioZome is added after pesticide usage.

### Uses

#### Growers:

##### **In home horticulturists**

House plants are watered less often, less fertilizer is required, fungal diseases are eliminated, and the salts that are found at the top of house plants over the years are locked up by BioZome so the salts will not damage the plant.

##### **Home Gardeners**

Use less water and less fertilizer, plants become disease and drought resistant, pesticides can be greatly reduced, and continual yearly use of BioZome will allow you to eliminate pesticide usage. BioZome will increase blossoms and greatly increase your crop yield.

##### **Tree growers**

Experience: increased root ball size, accelerated growth rate, healthier and hardier trees, faster turn-around on your crops, decreased replacements to your customers.

##### **Vegetable and fruit growers**

Experience reduced irrigation and fertilizing, reduced and in most cases eliminates pesticides,

crops stay fresher during shipment until they hit the market. Continued use of BioZome will condition your soils and BioZome's unique ability to extract silica from rocks will release vitally needed trace elements into your soil. BioZome also allows you to use finished and unfinished compost in your fields because of its accelerated breakdown rate. Flower growers: All of the above advantages are the same for flowers, but in particular flowers last longer after cutting. For example, roses on the average after cutting last three days. Those grown with BioZome last up to ten days.

### Landscapers:

#### **For commercial and residential landscapers**

BioZome reduces transplant shock. In every landscaping contract the landscapers are responsible for replacing plants that die regardless of the reason. BioZome's ability to make plants disease and drought resistant reduces the cost of your contract increasing your profit margin and your reputation in the industry.

#### **For highway and roadside landscapers**

Grass seeds germinate in about seven days compared to the normal twenty-one days, this greatly reduces the cost of watering and fertilizing highway landscaping projects. When compost is used on freshly seeded highways, plants, bushes and trees, the vegetation grows thick and rich requiring less water to maintain it and reduces the need for massive erosion control barriers. A portion of BioZome's formula is made up of the oil-eating microbes found in all of Dr. Oppenheimer's formulas. This means that whenever there is a gas or oil spill caused by an automobile accident the spill can be hosed off onto the roadside, which will be converted into food for the grass, bushes and trees.

#### **For landscape architects**

Design requirements are adjusted because of BioZome's unique ability to make plants, bushes and trees larger than the sizes normally found for their species. This is important for plant water usage, shade tree development, and flower color height scheme mixtures.

#### **For erosion and mudslide control**

The best defense for erosion and mudslide problems is a good offense. When BioZome is used in high risk erosion and mud slide sensitive areas the plants and especially trees increase their root ball system by at least three times their normal size. The deeper the roots, the stronger the plant and the more water is absorbed with less soil eroded.

#### **For lawn care and golf course maintenance professionals**

Regardless of the maintenance program you use BioZome will allow you to use less of your fertilizers and less watering which equals less man hours and supplies needed for a contracted service. PROFIT MARGIN INCREASES!

#### **For city, state, and federal park maintenance professionals**

The hardest part of park maintenance is overgrowth in the rainy season and subsequent fire hazard dangers in the dry season. BioZome's ability to accelerate the composting process reduces the fire hazard at the same time increases the food source for the foliage while retaining the moisture in the forest, which also reduces forest fire potential. BioZome's ability to increase the root size of grasses of all kinds allows the lawn caregiver the ability to repair high traffic areas in a very short period of time. Fertilizing and watering is reduced.

### Composters

#### **For Master Composters**

BioZome is the World's Greatest Compost Starter. No longer is the correct balance of green and

brown items necessary to make a perfect compost pile. BioZome has a unique group of microbes called microaerophilic. These microbes work in an extremely low oxygen atmosphere. The BioZome formula of microbes comes from volcanic regions throughout the world and are the most aggressive microbes known to mankind. Of special interest to composters is the microbes' ability to survive in a wide range of temperatures (35 F to 180 F).

#### **For city recycling programs**

BioZome breaks down compost at three times the normal rate. Eliminates odors caused by composting and eliminates the build up of methane gas when piles are not turned.

#### **For Landfills of all types**

The organic matter in landfills will be recycled at an accelerated rate, therefore the landfills can be reused in one-third the normal time. BioZome's ability to eliminate methane gas, non-chlorinated hydrocarbons, and toxins eliminates contaminate runoff in underground water.

### **Application Rates**

**Transplants:** Sprinkle 1 tsp. in the prepared area transplant and water.

**Soil Preparation for Seeds:** Before sowing seeds, lightly sprinkle over surface, approximately one ounce per 30 sq. ft. Cultivate the top layer and water.

**Garden/Potted Plants:** Lightly sprinkle on soil around the base of the plant and work into the top layer, then water. If the plant has not been feed recently, apply plant food for best results.

**Lawns:** Lightly sprinkle over lawn, one ounce per 30 sq. ft. Water thoroughly.

**Compost Piles:** Sprinkle liberally 3 oz for each cubic yard. Water to moisten, do not soak.

**Application:** Only one application of BioZome is necessary per growing season if the ground temperature remains above freezing. For potted plants only one application is necessary.

**Important Note:** If you have to apply pesticides that soak into the soil, reapply BioZome in 10 days. Do not apply BioZome and pesticides simultaneously.

BioZome is easy to use. For small applications the sprinkle top allows for an even spreading of microorganisms. The directions on the container explain different applications. The main goal in applying BioZome is to increase the microbial population so nutrients can be readily available to plants. BioZome can be applied at any time, but to give plants a good start, apply BioZome and fertilizer to the soil at the beginning of the growing season. You may then want to apply plant food again when the plant begins to flower. BioZome will reduce the amount of fertilization necessary, so adjust fertilizer use accordingly to plant needs.

Microorganisms are most active in the rhizosphere also known as the root ball. When applied on the top of soil or grass, microorganisms multiply and work their way to the root ball where they are most effective. In established vegetation, signs of increased plant growth and health are not immediate but become apparent within 30 days if sufficient nutrients are present in soil. Results are noticeable immediately when BioZome is added to the hole prepared for transplants. Transplant shock is reduced.

When planting seeds, BioZome can be sprinkled on prepared soil and cultivated into the top layer prior to adding seeds. Watering will activate the microorganisms. For super rich fertile soils the bed can be prepared in the fall for spring planting by adding organic matter and BioZome.

BioZome can also be applied easily on large areas (large yards or commercial sites) by mixing the product with sand using a 1:3 ratio of one part BioZome to three parts sand. Apply the mixture with a seed spreader. Adjust the hole on the spreader to achieve a light coverage over soil or lawns. For hand held spreaders fine sand works better. With larger spreaders use a coarse sand known as builder's sand. One application per growing season is all that is needed to maintain a lush green lawn. If dry spots occur due to inadequate watering apply organic matter (mulched leaves, compost or composted manure) on the dry spot to retain moisture and quickly reestablish growth.

When treating soil contaminated with petroleum products you will need more BioZome than recommended on the label to rapidly decompose the contaminant. Double the recommended application and apply a NPK fertilizer with a 10-6-6 ratio. Reapply BioZome and fertilizer in one week. Water the area periodically. Nothing will grow without water. Excessive spills may require professional assistance.

## FAQs

**Question:** Can I use too much BioZome?

**Answer:** No, you cannot use too much or too little of BioZome. If too much the excess will die off. If too little, the BioZome will multiply until it saturates the area.

**Question:** Will BioZome help my lawn?

**Answer:** Yes, in many ways! First, BioZome will increase the growth rate of your grass by enlarging the root ball, thereby allowing the water and fertilizer used on your lawn to be retained until it is needed. Second, BioZome conditions the soil by creating humus which will make the soil inhospitable for most soil born pests which includes ants, grub worms, and others. The thick rich lawn will inhibit weeds from growing. Basically, you use half the water and half the fertilizer and no longer need to use pesticides or herbicides. This makes your lawn and other plants that use BioZome disease and drought resistant.

**Question:** Will BioZome get rid of fire ants or grasshoppers?

**Answer:** No, BioZome will not get rid of fire ants and grasshoppers.

**Question:** Can BioZome help in organic soil certification and contaminated soil cleanup?

**Answer:** BioZome has been proven to breakdown a wide range of soil contaminants. The type of contaminants BioZome is most effective on is non-chlorinated hydrocarbons (small oil spills and most pesticides). Oppenheimer Biotechnologies ([www.obio.com](http://www.obio.com)) cutting edge engineering can handle major oil spills, chlorinated hydrocarbon contaminants and any other soil contaminants and toxins known to man.