

## **GreenSafe™ Nutrient Enhancers**

Centuries-old sustainable plant booster system turbocharged by the latest nanotechnology.

Green Plant Amendment (Outdoor) is designed to reduce or eliminate risks to ground water, waterways, useful insects, animals, and people from synthetic chemicals used for growing.

Soil Quality: Natural plants and synthetic fertilizers are incompatible. It is difficult for plants to absorb minerals such as iron, zinc, and synthetic fertilizers. In some cases, plants absorb as little as 30% of applied fertilizers and minerals. As much 70% of applied fertilizers remain unused. A part contaminates drinking water. Another part enters streams, ponds and the ocean causing fish kills, algae streams, and eventually dead zones. After multiple years of synthetic chemical applications soils are saturated with synthetic contaminants. Hair roots are unable to penetrate the soil and absorb minerals, moisture, inorganic nutrients, or oxygen. Applying additional fertilizers does not help. Plants remain malnourished and yields are diminished.

Soil Rescue: Plant Amendment uses the latest advances in nanotechnology. These micelles are created by blending plant and oil seed extracts at specific time intervals, temperatures, and sequences. These nano-sized emulsions offer inherent advantages over traditional chemicals, in reduced application rate, more rapid and reliable activation and extended long-term affect. It is made up of micelles that carry water and nutrients throughout plants because they are the size of 10 hydrogen atoms, or one nanometer (a billionth of a meter). They penetrate then remove deposits keeping stomata clean to transport water, nutrients, and naturel growth enhancers into roots and throughout plants. Uptake of nutrients and moisture is increased by elevation of the cation exchange capacity (CEC) increasing root size for improved stamina, increased brix, and terpenes. Natural growth stimulators, auxin, gibberellin and cytokinin plant hormones regulate roots, shoots, and bud growth. Transport of sugars (brix) giving a noticeable improvement in flavor and enhanced smell and taste. (See GreenSafe™ Foliar Spray for the synergistic effect from applying both products.)

Cost: Plant Amendment is applied at 5-oz. per acre in at least 20-gallons of water. Application is just prior to final disc or just prior to seeding with till less farming. Then apply 3 more times at 5 oz./acre at even intervals stopping 1-week before harvest. Application cost varies from \$5.86 to \$5.08 per acre depending upon purchase volumes.

Benefit: Hemp Outdoor Cultivation Field Test – A university plant scientist conducted a full harvest cycle test to compare performance between GreenSafe products and fertilizer alone. Plant Amendment and Foliar Spray applications brought substantial improvements. The yield increase compared to application of fertilizer alone was 122.8% for CBD and 158.4% for biomass. (Full Report Available) Combining our program with a usual hemp cultivation strategy will add a Plant Amendment cost of \$100.00 per acre over a crop's harvest cycle. Growers report fertilizer reduction of 30-50%

Storage and Handling requires no special procedures because the product is non-hazardous, odor free, 100% biodegradable, 9.2 pH, and hypoallergenic. Personal protective equipment is not required. Containers can be reused, no special disposal is required, spills can be washed away with no concern about the environment. Store away from temperature extremes. The shelf life is 3-years.

For Application Specific Information:

Contact Gary Reid - Founder/Owner

[greensafegary@gmail.com](mailto:greensafegary@gmail.com) - 239-465-1890 Phone - Text - WhatsApp

### **Case for Fertilizer Reduction**

Nitrogen-based fertilizer runs off into rivers, lakes, and oceans creating vast swaths of marine dead zones and killing 212,000 metric tons of fish in the Gulf of Mexico and 400 similar dead zones around the world the size of Europe on which 500 billion people depend on for food. Fertilizer production requires massive amounts of natural gas from fracking (which contributes a quarter of global methane emissions from the fracking wells). Once applied to soils, it destroys organic matter and is now two thirds less effective and we use 7 times what we did 40 years ago to get the same yields. The nitrous oxide produced when applied to soils is a greenhouse gas 300 times more harmful than carbon dioxide!

## GreenSafe™ Nutrient Enhancers

Centuries-old sustainable plant booster system turbocharged by the latest nanotechnology.

Foliar Spray (Outdoor) is an adjuvant that blends easily with agrichemicals to increase their efficiency. It reduces surface tension improving absorption of moisture and nutrients to increase growth and quality for all crops. Agrichemicals can be cut back 30% or more and some can be eliminated. It is designed for row crop, fruit and nut tree, berry, vegetable, flower, and ornamental application. It can be applied separately or as an adjuvant that blends easily with nutrients to increase their efficiency. It reduces surface tension improving absorption of moisture and nutrients.

### Value

- Uptake of nutrients and moisture increased by elevation of the cation exchange capacity (CEC) increasing root size for improved stamina, increased brix, and terpene.
- Levels of natural growth stimulators. Naturally occurring levels of auxin, gibberellin and cytokinin plant hormones regulate roots, shoots, and bud growth and essential oil production.
- The transport of sugars (brix) giving a noticeable improvement in flavor and enhanced smell and taste.
- Control of ripening to extend freshness by neutralizing ethylene gas after harvest.
- Frost and freeze resistance.
- Clean up and keep clean performance for fertigation and spray systems.

Michigan State University scientists proved effectiveness of foliar feeding. They learned; foliar applied nutrients have a 95% effectivity of uptake as opposed to 10% with nutrients applied to the soil. They measured a 65% uptake of nutrients just 25 minutes after application. And they demonstrated that applying nutrients to foliage encourages plants to exude more carbohydrates into the root zone, which in turn increases microbial activity in the root area to increase nutrient uptake from the soil.

Application Foliar Spray Concentrate is formulated for application at 5-oz. per acre. It is applied diluted with at least 20-gallons of water or nutrient mixture at a cost of \$4.88 - \$3.83 per gallon depending upon order quantity. Growers report agrichemical program reductions made possible by GreenSafe™ exceed its cost. Guidelines are suggested starting points only. The amount needed is dependent on the size of your plants and the thoroughness of application. Monitor to avoid overfeeding. Customers report reduction of agrichemicals by one third or more. Foliar Spray is compatible with foliar fertilizers. Jar testing is recommended. Mix by filling a container with ½ of water volume needed, add concentrate, then add the remaining water volume and mix thoroughly. Spray in low light. It is best to spray early in the morning or otherwise late in the evening, rather than in full sunlight and during the hottest part of the day. This avoids any burning of the leaves due to the 'lens effect' produced when strong sunlight hits water droplets and magnifies. Also, the pore-like stomata of the leaves, through which the plants absorb nutrients, open fully at night, thus allowing a quicker and more efficient intake of the solution.

- Fruits, Nuts and Berries: 1 oz. per 8 gallons of water. Pre-flowering, spray leaves, top and bottom, limbs, and trunk. Repeat at 3-week intervals until blossoms appear. Do not spray blossoms.
- Field and Row Crops: Per acre: Add 5-7 oz. per 7-20-gal. water.
- Flowers and Ornamentals: Test soil pH prior to application. Test application rates between 1oz./4-gal. water for hardier plants, and 1 oz. per 12-gal. for delicate house plants and flowers.
- Freeze/Frost Resistance: 1 oz. per 3-4-gallons. Apply product to leaves and fruit prior to frost. 1 oz. per 8-gallons for subsequent treatments. Post Freeze Recovery: Drench frozen leaves, trunks, and roots as soon as possible.
- Post-Harvest - Toxic Residue Removal and Spoilage Delay: Wash or soak in 2 ounces per gallon solution for 15 minutes. Rinse before consumption.
- Cannabis Cultivation - Contact us for indoor and outdoor cannabis cultivation application.

Guidelines are suggested starting points only. The amount needed is dependent on the size of your plants and the thoroughness of application. Monitor to avoid overfeeding. Customers report reduction of agrichemicals by one third or more. Visit our Web site for field data supporting our claims.

Storage and Handling requires no special procedures or equipment. Plant Amendment is non-hazardous, odor free, 100% biodegradable, 9.2 pH, hypoallergenic plant based chemical blend for which personal protective equipment is not required, containers can be reused, no special disposal is required, spills can be washed away with no concern about the environment. It is stored away from temperature extremes for a shelf life of up to three years. Mix by filling container with ½ of water volume needed, add concentrate to the water then complete filling. Jar testing is recommended for use with nutrients.

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# GreenSafe™ Nutrient Enhancers

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Green Plant Amendment (Indoor) is designed to reduce or eliminate risks to ground water, waterways, useful insects, animals, and people from synthetic chemicals used for growing. Nanotechnology is applied to turbocharge the performance of plant chemicals long known as crop boosters. Our proprietary blending process with its specific time intervals, temperatures, and sequences transforms processed plant and oilseed extracts into 2-3 nanometer-sized (1-nanometer = 1 billionth of a meter) colloidal micelles. Millions of these micelles make up GreenSafe™ Plant Amendment.

Performance improvements are combined with significantly reduced requirements when micelles encapsulate nutrients with moisture to improve plant uptake and circulation. And the colloidal micelles themselves add naturally occurring levels of auxin, gibberellin, cytokinin, and hormones. natural growth stimulators and amino acids. GreenSafe™ Plant Amendment Stimulate natural processes to enhance nutrient uptake and nutrient efficiency.

- Elevate metabolism during critical growth stages.
- Enhance germination promoting vigorous growth during the seedling or cutting stage.
- Increase cell division in roots and shoots.
- Increase bud growth, sugars (Brix), and essential oil production.
- Bring early plant emergence reducing weeds and their seeds.
- Increase the number of root hairs improving nitrogen fixation to stimulate vegetative growth.
- Increase photosynthesis activity and chlorophyll content are increased.

Application for indoor growing: rate for an indoor system startup:

- 4 ml/gal. treat rate for irrigation water or nutrient solution.
- Reduce inorganic nutrient levels by 33.3% to avoid overfeeding.
- Soak the blocks for the cuttings to help with strike rate and quicker rooting.
- Put your cutting in the block.
- When potting up your plants repeat this process by soaking your media, i.e. (Coco/soil)
- Now you have rooting clones ready to add nutrient solution.
- Providing the water background is zero EC, start the plants at 0.8 EC. Then add Plant Amendment at 4 ml per gallon.
- Experience has shown that 10-15% run off is enough.
- Now as you monitor EC during growing, for every 0.4 EC drop up the feed by 0.2 to make sure the plants are always at full speed.
- Your EC/ION tester will tell you which elements the plants are taking up so you can adjust keep the minerals at levels the plants are wanting.

Cost: The Plant Amendment addition to irrigation water or nutrient mixture costs 49 cents per gallon to 36 cents per gallon depending upon gallons purchased. A representative application treating 90 medical marijuana plants cost \$912.24 for their life cycle.

Benefit: Yield Increase Added Ounces Value: \$30,988.34 for a return of \$33.97 for each Plant Amendment dollar.

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**Case for Fertilizer Reduction**  
Nitrogen-based fertilizer runs off into rivers, lakes, and oceans creating vast swaths of marine dead zones and killing 212,000 metric tons of fish in the Gulf of Mexico and 400 similar dead zones around the world the size of Europe on which 500 billion people depend on for food. Fertilizer production requires massive amounts of natural gas from fracking (which contributes a quarter of global methane emissions from the fracking wells). Once applied to soils, it destroys organic matter and is now two thirds less effective and we use 7 times what we did 40 years ago to get the same yields. The nitrous oxide produced when applied to soils is a greenhouse gas 300 times more harmful than carbon dioxide!

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## Application

Foliar Spray Concentrate is formulated for addition to water or nutrient mixture at 15 ml (0.5 oz.) per gallon. The cost per gallon of spray solution is 39¢ - 23¢ per gallon depending upon order quantity. Guidelines are suggested starting points only. The amount needed is dependent on the size of your plants and the thoroughness of application. Monitor to avoid overfeeding. Customers report reduction of agrichemicals by one third or more. Mist weekly at low light. Use this method and ratio all the way from seedlings or rooted clones through flowering. Do not spray into open flowers. Adjust your spray technique from mid-flower through finish by only hitting the underside of the lower fan leaves so as not to pack any more liquids onto the ripening buds. Stop when flowers are fully formed. Keep testing and adjusting to be sure you are not applying too much or not enough fertilizer. Guidelines are suggested starting points only. The amount needed is dependent on the size of your plants and the thoroughness of application. Monitor to avoid overfeeding. Customers report reduction of agrichemicals by one third or more. Visit our Web site for field data supporting our claims.

## Equipment

For small gardens, where you will only be spraying a few plants, a handy 750 ml spray bottle will be enough for proper treatment. Larger gardens with more plants to spray will require a hand-pumped pressure sprayer available as a 2-liter bottle or in a 5-liter version with a shoulder strap. Foliar Spray users report the added benefit when line and spray plugging ends with all equipment.

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