

GreenSafe™ Overview

Goal

Green-Safe-Solutions' goal is to supply the optimum blend of beneficial plant extracts that deliver quality and yield to all growers. Our 100% biodegradable, toxin free products help reduce or eliminate harmful residues from gardens, orchards, greenhouses and farms. This breaks the cycle of soil, crop and environment contamination.

Manufacturing

Our nutrient enhancer formulas and proprietary blending processes are designed to deliver solutions of essential ingredients optimally balanced for each phase of the growing cycle and cleaning without harsh chemicals.

Mechanism

Products increase yield and improve quality by promoting impressive plant growth, health, and quality in three ways:

- The first effect is to impart an increase in the cation-exchange capacity (CEC). (CE is a soil science term meaning the electromagnetic exchange between a plant's root and nutrient ions of the soil.) Nutrients and minerals are broken down into nanosized particles making them more available to plants. By increasing the number of cations available to the plant at any given pH the fertility of any growing medium is increased. Nutrients and trace elements are more readily absorbed through the roots.
- The second effect is to give the plant a reliable source of plant natural growth stimulators and amino acids. The growth stimulators include naturally occurring levels of auxin, gibberellin, cytokinin and plant hormones. These are readily used by the plant to regulate plant growth as increased cell division in roots and shoots. Bud growth and essential oil production are also increased.
- Thirdly, the unique formulation promotes the transport of sugars (brix) throughout the plant. This enhances photosynthesis.

Benefits

Green Safe Solution product components are credited with a long list of direct benefits:

- Enhanced germination energy promoting vigorous growth during the seedling stage.
- Early emergence to help reduce weeds and their seeds.
- Increased quantity of root hairs to improve nitrogen fixation to stimulate vegetative growth
- Enhanced root development to reduce plant wind damage.
- Stimulate the natural processes to enhance nutrient uptake and nutrient efficiency. This can increase tolerance to abiotic stress and improves crop quality.
- Reduced transplant shock, and improved abiotic and biotic stress resistance.
- Strengthened shoot elongation and plant development.
- Elevated plant metabolism, especially during critical growth stages.
- Greater resistance to environmental stress such as salinity, drought and frost.
- Increased photosynthesis activity and chlorophyll content.
- Increased uptake and utilization rate of mineral nutrients and micronutrients.
- Improved efficiency of plant protection treatments.
- Improved flowering and fruit set, uniform fruit color and size as well as promoting early ripening and prolonged shelf life.
- Improved yield.
- Improved smell and flavor.
- Improved crop immunity, protecting crops from fungal, bacterial and virus infections.
- Plants are stimulated to release antibiotics and enzymes against soil borne diseases and nematode egg shells and to accelerate plant wound healing.
- Clean up and keep irrigation and application systems clean. Fouled and plugged systems caused by hard water and supersaturated agrichemical solutions become a thing of the past.
- Percolation rate is improved allowing farmers to enter fields sooner.

Green Safe Solution product components are also credited with indirect benefits:

- Do not harm beneficial insects, birds, and animals.
- Interfere with harmful insect cellular metabolism and growth hormone production during metamorphosis.
- Dissolve the lubrication in the harmful insect's joints leading to paralysis.
- Emulsify bacteria stopping their reproduction cycle.
- Strip insect's organic shields (wax, biofilm, etc.), rendering them defenseless.
- Enable insecticide or fungicide to dissolve more easily in water, become more stable which optimizes killing capacity
- Penetrate most soft bodied targets such as aphids, fungi, mealy bugs, nematodes, powdery mildew, and spores to dissolve their protective cellular chitin, resulting in death.
- Penetrate and dry the lubrication of exoskeleton joints of fleas, grasshoppers and hard-shelled beetles. The crippled insect dies of starvation.
- Penetrate and dissolve the waxy coating of wings to dry and paralyze the exoskeleton wing connection to the body for flying insects like white flies, mosquitoes, wasps and other harmful pests.
- Dissolve insect digestive systems for sucking insects such as leaf hoppers, scale, spider mites, stink bugs.

Application

The most efficient way to correct and prevent nutrient deficiencies for nut, fruit, vegetable, flower, medicinal plants, field and row crops is by soil application followed by foliar spraying of GreenSafe Plant Amendment and Foliar Spray.

- Soil Application - A portion of herbicide, pesticide and synthetic fertilizer bind strongly to soil blocking effectiveness. GreenSafe Plant Amendment spray or drench application is exceptionally effective dissolving (chelating) both organic and inorganic ions making nutrients more available. Contaminants are filtered and washed out of the soil pushing them below root zones. Aeration and percolation are improved.
- Spray Application - GreenSafe Foliar Spray is an adjuvant that blends easily with nutrients and other chemicals to increase their efficiency. It reduces surface tension and improves solubility improving absorption of moisture and nutrients via foliar application. Plant application works synergistically with Plant Amendment. It is a fast-acting and highly effective form of supplementing plant fertilization especially for enhancing the supply of secondary nutrients. Foliar Spray increases growth, yield and quality while reducing costs. Crop damage is reduced when temperatures drop down to 27°F. Spraying flowers, fruit and vegetables after harvest extends shelf life. Spray systems are cleaned and kept clean.

Handling

Green Safe Solution products are hypoallergenic and non-toxic. No special disposal, ventilation, first aid or operator protective equipment is required. All containers can be safely reused. Store up to two years away from extreme temperatures. Use our contact information below for free consultations and to obtain Safety Data Sheets.

Next Steps

Our team invites you to reduce or eliminate hazardous residuals from gardens, orchards, greenhouses and farms. Resolve today to learn more about optimum blends of beneficial plant extracts that deliver quality and yield for all crops. Then act by teaming with us to design your evaluation. We are confident you will decide to apply our products to all that you grow.

Grow With Us