

## Plant Amendment (Outdoor)

The GreenSafe System of Products for Sustainable Growing

Plant Amendment works on the molecular level to significantly boost plant uptake of nutrients. 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. Plant Amendment uses the latest advances in nanotechnology to solve this problem. Colloidal micelles are created by blending plant and oil seed extracts at specific time intervals, temperatures, and sequences. These nano-sized mixtures offer inherent advantages over traditional chemicals, in reduced application rate, more rapid and reliable activation and extended long-term affect. Micelles carry water and nutrients to the roots then throughout plants. They are the size of 10 hydrogen atoms, or one nanometer (a billionth of a meter). They significantly increase transport nutrients and water into roots and throughout plants. They supply natural growth stimulators, auxin, gibberellin and cytokinin plant hormones to regulate roots, shoots, and bud growth. Transport of sugars (brix) giving a noticeable improvement in flavor and enhanced smell and taste along with pest resistance. This increased fertility cuts the waste contributing to bound up soil and pollution.

Value Growers report fertilizer reduction with PA with improved yield and quality.

**Cost:** Plant Amendment (Outdoor) 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 Foliar Spray (See Foliar Spray Product Sheet) is applied 3 more times at 5 oz./acre at even intervals stopping 1-week before harvest. Application cost varies from \$7.81 for 1-gallon purchases to \$5.63 per acre for totes.

**Benefits:** Hemp Outdoor Cultivation Field Test Casw - A university plant scientist conducted a full harvest cycle test to compare performance between Nutrient Enhancers and fertilizer alone. Plant Amendment and Foliar Spray applications brought substantial improvements. CBD Level +22.8% - Biomass +58.4% - Fiber Yield +47.2% - Seeds +9% (See the full report at our Web site tab, Nutrient Tech Proofs.)

Application is as a mist of a 15-ml/gal. solution of water or nutrient mixture weekly. Use this method 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. Nutrient Enhancers are compatible with all agrichemicals. Treat levels and fertilizer reduction are guidelines so 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.

### Storage and Handling

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.

### Contact Us

Learn about The GreenSafe™ System that enables ending use of toxic chemicals for growing, pest control, hygienic cleaning, and sanitizing.

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**Table 1: GreenSafe™ Harvest Cycle Cost/Acre**

Nutrient Enhancer	Delivered Cost/gal.	Delivered Cost/oz.	5-oz. Per Acre Cost	Treats per Cycle	Cycle Cost
Plant Amendment	\$200	\$1.56	\$7.81	1	\$7.81
Foliar Spray	\$200	\$1.56	\$7.81	3	\$23.44
<b>GreenSafe™ Total Cost per Acre</b>					<b>\$31.25</b>

**Table 2: GS Fertilizer Save/Acre**

Crop	\$/Acre	-30%
Corn	\$232.00	\$69.60
Soybeans	\$108.00	\$32.40

Ref: <https://tinyurl.com/bdmxcjib>

## GreenSafe™ Plant Amendment (Indoor)

The GreenSafe System of Products for Sustainable Living

Plant Amendment uses agri-nanotech 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

- 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 approximately 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.

### Value

Cost: Plant Amendment addition to irrigation water or nutrient mixture at 4 ml per gallon costs 21 cents per gallon to 13 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. Find the full report at the Our Performance tab at our Web site.

### Storage and Handling

No special procedures or equipment are required. Foliar Spray 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.

### Contact Us

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## Plant Amendment (Indoor)

### The GreenSafe System of Products for Sustainable Living

#### Application - Indoor Growing

The application rate for a hydroponic system startup is 1 ml / liter (4 ml/gal – 0.135 oz./gal.)

- Soak the blocks for the cuttings with the 1-ml per liter GreenSafe Plant Amendment solution.
- Put your cutting in the block. Steps 1 and 2 will help with strike rate and quicker rooting.
- 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 approximately 0.8 EC. Then add Plant Amendment at 1ml per liter.
- Experience has shown that 10-15% run off is sufficient.
- 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.



**IMPORTANT** – You must reduce inorganic nutrient base feed by 33% to avoid overfeeding.



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# Safety Data Sheet

## GreenSafe™ Plant Amendment

### SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product  
Name: GreenSafe™ Plant Amendment Indoor - Outdoor  
Brands: GreenSafe™  
Product Family: Phytochemicals  
Products Use: All growing and cleaning.  
Supplier Name  
Green-Safe-Solutions LLC  
Address: 3070 Orange Grove Trail – Naples – FL 34120  
Telephone: Gary Reid - Florida 239.465-1890  
Emergency Phone (800) 424-9300 CHEMTREC  
Prepared/Revised: 17 Jul. 17

Further information: If employees are expected to fight fires, training and equipment information can be found in OSHA Fire Brigades Standard (29 CFR 1910.156).

### SECTION 2 – HAZARD IDENTIFICATION

Classification of the substance or mixture  
Not a hazardous substance or mixture.  
GHS Label elements, including precautionary statements  
Not a hazardous substance or mixture.  
Hazards not otherwise classified or not covered by GHS  
HMIS Rating: Health hazard: 0 Chronic Health Hazard:  
Flammability: 0 Physical Hazard 0  
NFPA Rating: Health hazard: 0 Fire Hazard: 0 Reactivity  
Hazard: 0

### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Substance There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

### SECTION 4 – FIRST AID MEASURES

Description of first aid measures  
General advice: Show this SDS to first responders and physicians. Product is not hazardous.  
In case of eye contact: Immediately flush with large amounts of cool water. Remove contact lenses, if worn, while rinsing. If eye irritation occurs and persists, get medical advice/attention.  
In case of skin (or hair) contact: Immediately wash contaminated skin with large amounts of soap and water. If skin irritation or a rash occurs: Get medical advice/attention.  
If inhaled: Remove the person from exposure to fresh air and keep comfortable for breathing. Begin rescue breathing (using universal precautions) if breathing has stopped and CPR if heart action has stopped. If experiencing respiratory symptoms call a POISON CENTER/doctor.  
If swallowed: Rinse mouth. Do not induce vomiting due to inhalation risk. Seek immediate medical attention if you feel unwell.  
Most important symptoms and effects, both acute and delayed: None known.  
Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

### SECTION 5 – FIREFIGHTING MEASURES

Extinguishing Media: Substance is not combustible.  
Suitable Extinguishing Media: Not Applicable.  
Unsuitable Extinguishing Media: Not Applicable.  
Special hazards arising from the substance or mixture: None known.  
Advice for firefighters: Product is not combustible. Advice applies to surrounding materials that may be combustible. Wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. (MSHA/NIOSH approved or equivalent).

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Product is not hazardous. However, it is always advisable to be cautious handling any chemical. Avoid breathing mist/spray.  
Environmental precautions: Prevent further leakage or spillage. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Product is not a pollutant requiring notification of spills.  
Methods and materials for containment and cleaning up: Contain spilled material if possible. Product is not hazardous so no special disposal measures are required.  
Small spills: Absorb liquids in vermiculite, dry sand, earth, or a similar material. Vacuum dry chemicals to avoid creating dust. Never return spills to original containers for re-use. Use water spray to disperse vapors.  
Large spills: Dike to contain liquids then recover with a wet vacuum.  
Reference to other sections-resources: For additional information, refer to Section 8: Exposure Controls and Personal Protection, Section 7: Handling, Section 12: Ecological Information, Section 13: Disposal Considerations and OSHA Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120).

### SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling: Product is not hazardous. However, it is always advisable to be cautious handling any chemical. Avoid breathing mist/spray. If exposed and you feel unwell, contact a physician.  
Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Avoid temperature extremes. Containers which are opened should be carefully resealed and kept upright to prevent leakage.  
Specific end use: See Section 1.

### SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

Control parameters: Under normal conditions of use, no special precautions or control measures are required. Guidelines may not apply to every situation. Industrial hygiene evaluations should be completed at each workplace. Exposure limits are for air levels only.  
Component Workplace Exposure Limits: No OSHA – NIOSH – ACGIH exposure limits.  
Exposure controls: Appropriate engineering controls: Where possible, enclose operations and use local exhaust ventilation at the site of chemical release. Wear protective work clothing.  
Personal protective equipment: Safety glasses and chemical resistant gloves are not required for this product but are recommended whenever chemicals are handled. Obtain detailed information from OSHA Personal Protective Equipment Standard (29 CFR 1910.132) and equipment suppliers.  
Eye/face protection: Safety glasses are not required but are recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  
Skin protection: protective gloves/protective clothing. Wash and dry hands after use.  
Respiratory protection: Not normally required. Improper use of respirators is dangerous. Respirators should only be used with a written program as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).

Control of environmental exposure: Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with regulations.

Evaporation rate: Not Determined  
Flammability: Not Applicable

Upper/lower flammability or explosive limits: NA  
Vapor pressure: Same as Water  
Vapor density: Heavier Than Air  
Relative density: Not Determined  
Specific gravity: 1.001  
Water solubility: Complete  
Partition coefficient: n-octanol/water: ND  
Auto-ignition temperature: Not Determined  
Decomposition temperature: Not Determined  
Viscosity: Not Determined  
Explosive properties: Not Applicable  
Oxidizing properties: Not Determined

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**  
Information on basic physical and chemical properties  
Appearance Form: Liquid  
Color: Clear to Opaque  
Odor: Faint  
Odor Threshold: Not Determined  
pH: 9.2  
Melting point/freezing point: Not Determined / 28°F  
Initial boiling point/boiling range: >212°F / ND  
Flash point: Non-Combustible  
Other safety information VOC: NA  
Physical Data is typical values based on material tested but may vary based on composition. Values should not be accepted as guaranteed for every lot or as specifications for this product.

**SECTION 14 - TRANSPORT INFORMATION**

DOT: Not Regulated - IATA: Not Regulated - IMDG: Not Regulated

**SECTION 10 - STABILITY AND REACTIVITY**  
Reactivity: Not reactive under normal conditions.  
Chemical stability: Stable under recommended storage conditions.  
Possibility of hazardous reactions: None known.  
Conditions to avoid: Avoid excessive heat or cold.  
Incompatible materials: Strong oxidizing agents.  
Hazardous decomposition products: Does not decompose under normal conditions.  
Other decomposition products: None known.

**SECTION 15 - REGULATORY INFORMATION**

**SECTION 11 - TOXICOLOGICAL INFORMATION**  
Information on Toxicological Effects  
Component toxicity: Not toxic.  
Mixture toxicity: Inhalation - Dermal - Skin corrosion/irritation - Eye damage/eye irritation - Respiratory/skin sensitization - Germ cell mutagenicity - Reproductive toxicity - Specific target organ toxicity - single exposure - Specific target organ toxicity - repeated exposure - Aspiration hazard: All not applicable. - Carcinogenicity: Not a carcinogen. No component of this product present at levels greater than or equal to 0.1% is classified as a carcinogen by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), or the Occupational Safety and Health Administration (OSHA).  
Additional Information: None known.

Federal  
TSCA: Components of this product are listed on the TSCA Inventory.  
RCRA: None of the ingredients are currently listed as a substance or a source waste under current RCRA regulations (40 CFR 261.31, 32 and 33).  
CERCLA: Product is not found on Table 302.4, 40 CFR part 302.  
SARA TITLE III: (Superfund Amendments and Reauthorization Act)  
Section 301-303 Components (Emergency Planning): No EHS/TPQ components.  
Section 304 Components (Emergency Release Notification): No components with release minimum RQ.  
Section 311/312 Hazards: None  
Section 313 Components: None that exceed the threshold (De Minimis) reporting levels established by Section 313.  
States  
State Right to Know Components: None  
California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.  
Canada  
DSL: This product, or its components, are listed on or are exempt from the Canadian Domestic Substances List.  
WHMIS: Uncontrolled product according to classification criteria.

**SECTION 12 - ECOLOGICAL INFORMATION**  
Ecotoxicity  
Component ecotoxicity: None known.  
Mixture ecotoxicity: Toxicity to Fish - Persistence and Biodegradability - Bioaccumulative Potential - Mobility in Soil: Not toxic.  
Other adverse effects: None known.

**SECTION 16 - OTHER INFORMATION**

**SECTION 13 - DISPOSAL CONSIDERATION**  
Waste treatment methods: See Section 15 for ingredients listed under current RCRA regulations (40 CFR 261.31, 32 and 33), Comprehensive Environmental Response, Compensation (CERCLA) Table 302.4, 40 CFR part 302, and SARA TITLE III: (Superfund Amendments and Reauthorization Act) Sections 301-313.  
Product: Not special procedures required to dispose of this material.  
Contaminated packaging: Empty containers should be disposed of responsibly. No special procedures are required.

Disclaimer: The information contained herein is offered only as a guide to the handling of these specific products. Since such information does not relate to use of these products with any other products or in processes, any person using this information must determine for himself its suitability for any application. The buyer and user assume all risk and liability of use, storage and/or handling of these products not in accordance with the terms of the product labels. Manufacturer makes no Warranties of any kind, express or implied with respect to this product. Green Safe Solutions, LLC obligations are limited to replacement of product for defective material only. Manufacturer shall not be liable for any injury, loss or damage directly or consequently arising from the misuse or inability to use the product.

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