

Plant Amendment (Indoor)

Biostimulant

Nanotechnology is applied to turbocharge the performance of plant chemicals long known as nutrient enhancers. 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. Trillions 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. 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 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.

Systems Cleanup

Customers report the end to plugged lines and sprays.

Specifications

Form: Liquid

Color: Clear to Opaque

Odor: Faint

pH: Neutral

Freezing point: 28°F

Initial boiling point: >212°F

Flash point: Non-Combustible

Vapor pressure: Same as Water

Vapor density: Heavier Than Air

Specific gravity: 1.001

Water solubility: Complete

Value

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. Review the full test report at the Performance tab.

Storage and Handling

Foliar Spray (Indoor) non-hazardous, odor free, 100% biodegradable, 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 then complete filling. Compatible with agrichemicals. Jar testing is recommended.

Grow With Us - Learn how many dollars you gain from each biostimulant dollar.

Works Seamlessly Alongside All Growing Strategies

Plant Amendment (Outdoor)

Plant Amendment is a triple benefit product:

- **Nutrient Enhancer:** It improves absorption of nutrients to reduce costs while increasing yields.
- **Soil Restoration:** It restores soils to productivity.
- **Systems Cleanup:** It cleans irrigation and fertigation systems, then keeps them clean.

Nutrient Enhancer

Plant Amendment bio stimulants carry nutrients throughout a plant and its roots. Plant Amendment reduces surface tension, permitting improved absorption of moisture and nutrients via root, basal, foliar applications. This reduces the amount and cost of nutrients needed for optimum health, growth and yield. Plant Amendment increases Cationic Exchange (CEC). CEC is a scientific term to describe the process in plants that stimulates the electromagnetic exchange between a plant's root system and nutrient ions of the soil. Electro-magnetic activity is increased in the roots to stimulate natural growth of plants at the cellular level. Plants are helped to attract, hold and exchange positively charged particles of magnesium, calcium, carbon, trace minerals and other nutrients in a manner that allows roots to more easily absorb them. This encourages increased root size for more efficient uptake of nutrients and moisture to improve stamina in the plant. Plus, Plant Amendment components give the plant a useful source of natural growth stimulators and amino acids. These growth stimulators include naturally occurring levels of auxin, gibberellin and cytokinin plant hormones.

Soil Restoration

Years of herbicide, pesticide and synthetic fertilizer applications have bound up soil blocking tree roots from absorbing nutrient ions. Plant Amendment is exceptionally effective dissolving (chelating) both organic and inorganic ions cleaning both irrigation, pylon, and fertigation systems along with soil. Contaminants are filtered and washed out of the soil pushing them below tree root zones. Aeration is improved.

Systems Cleanup

Customers report the end to plugged lines and sprays. Farmers report an end to having to stop several times to clear spray nozzles during each application. Fertigation system operators report the same benefit with no plugged sprays.

Specifications

Form: Liquid

Color: Clear to Opaque

Odor: Faint

pH: Neutral

Freezing point: 28°F

Initial boiling point: >212°F

Flash point: Non-Combustible

Vapor pressure: Same as Water

Vapor density: Heavier Than Air

Specific gravity: 1.001

Water solubility: Complete

Application

Dilute Plant Amendment concentrate with water or nutrient mixture. It is compatible for tank mixing with herbicide, nutrients, insecticides, and fungicides. Plant Amendment is 100% biodegradable, non-toxic, carcinogen free. Apply at 7 oz. per acre for soil rescue. All other applications are at 5-oz. acre in at least 20-gallons of water or agrichemical mixture. First application is prior to final disc or just before planting with no-till farming. For hemp cultivation, apply each 10-days.

Optimize: Keep testing and adjusting to be sure you are not applying too much or not enough fertilizer. Users report significant reductions in agrichemical application rates are possible.

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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Nanotech Supercharges Proven Phytochemical Performance

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product

Name: GreenSafe™ Plant Amendment Indoor and 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

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).

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 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.

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

Evaporation rate: Not Determined

Flammability: Not Applicable

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 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 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.

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 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.

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 14 – TRANSPORT INFORMATION

DOT: Not Regulated – **IATA:** Not Regulated – **IMDG:** Not Regulated

SECTION 15 – REGULATORY INFORMATION

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 16 – OTHER INFORMATION

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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