

CASE: CANNABIS GREENHOUSE CULTIVATION

PP. 1-2 Report

PP 3-4 Test Data

EXECUTIVE SUMMARY

\$33.94 bottom line dollars gained per \$1.00 GreenSafe Plant Amendment™ Cost

Greenhouse Manager, “In my half decade of cannabis cultivating, I have never seen an additive or product of any type give me yields increased, growth rate and THC levels the way GreenSafe Plant Amendment™ (PA) has. After running trials on multiple strains, I’ve seen a 300% plus increase in yields, seven days less veg time in the nursery, and at least a 5% increase in THC scores across the board. My PA plants are twice the height and have at least twice the node sites of all control plants, not to mention the insane color, smell and density we have acquired thanks to PA. On top of that, I’m saving 33% in my nutrient costs. I would highly recommend PA to anyone looking to step up the quality and productivity of their cannabis operation. I’m a believer, try it, and you will be too!”

TEST SITE

The Cultivation Manager of one of largest medicinal marijuana greenhouses in the U.S. was introduced to Plant Amendment at a trade show. He conducted a short evaluation watering plants in the flowering stage using PA. Results were so good the decision was made to purchase product sufficient to conduct an evaluation over the entire 80-day growing cycle. The medical marijuana production complex is over 200,000 square feet of greenhouse plus Indoor cultivation area with a state of the art extractions laboratory focused on providing high-quality flower and extract products. Growers are dedicated horticulturalists committed to sustainable, state-of-the-art farming practices. They’ve developed a unique cultivation environment that’s finely tuned to nurture the highest THC levels without the use of harmful pesticides and fungicides. A balanced crop nutrition is combined with natural sunlight and supplemental light. Expert care by our large group of professional horticulturalists ensure only quality medication is provided to our dispensary partners.



TRIAL NOTES

180 clones from the same mother plant assures a genetic match. A full growing cycle evaluation will have 90 test plants and 90 control plants all the same strain. Photos will be taken from clones to the 22 October 17 harvest. Finished products will be tested for THC and terpenes so quality improvement can be determined in addition to the substantial increase in all The treated

REPORT

and control products remain together all the way until they are moved to the flowering area so they have a complete side-by-side test - others in the work area have noticed the difference between the control and the treated plants - we will get full chemistries on the harvested product - samples were sent to Holland for full water analysis to make determinations about nutrient feed. - Increase in yield will be determined for the full life cycle - first trial batch will go from nursery to bloom next week. A preliminary evaluation was just for the bloom stage so the two evaluations under way are the first full cycle trials. - the greenhouse manager says there is an increase in growth rate - he is guessing up to 10% - there will be 8 more measurements taken for the report. There is a variation between parts of the building that they will eliminate as a factor by sending plants to numerous bloom zones. The manager will measure weekly width and height on buds - the lab will provide full chemical analysis.



TEST PROGRAM REQUIREMENT:

The manager needs a thorough report to show the investors to justify adding PM to their costs. Terpenes increase is most important. The shortened growth cycle is a close second. It will increase production with no added space. The Vegetative Stage was shortened one week. Treated plants are larger, fuller and show greater vigor. The full report is complete one month after the end of the harvest cycle because data from the local lab results are confirmed with samples sent to Holland. Then the Cultivation Manager will issue a signed evaluation report.

THE FINAL REPORT

Test plants showed significantly more vigorous growth throughout the veg and flower process, stronger more woody stalks and far more node sites. Test plants yielded significantly more overall weight due to a greater number of node sites. With increased vigor and growth rate, PA appears to be a beneficial product for increasing yields and overall THC levels:

- ✦ 444% Trimmed Flower Total Yield Increase
- ✦ 34% Increased Cannabinoids
- ✦ 14% Production Rate Increase - Vegetative Stage was Reduced from 8-Weeks to 7-Weeks for a >14% Production Rate.
- ✦ 33% reduction in nutrients.

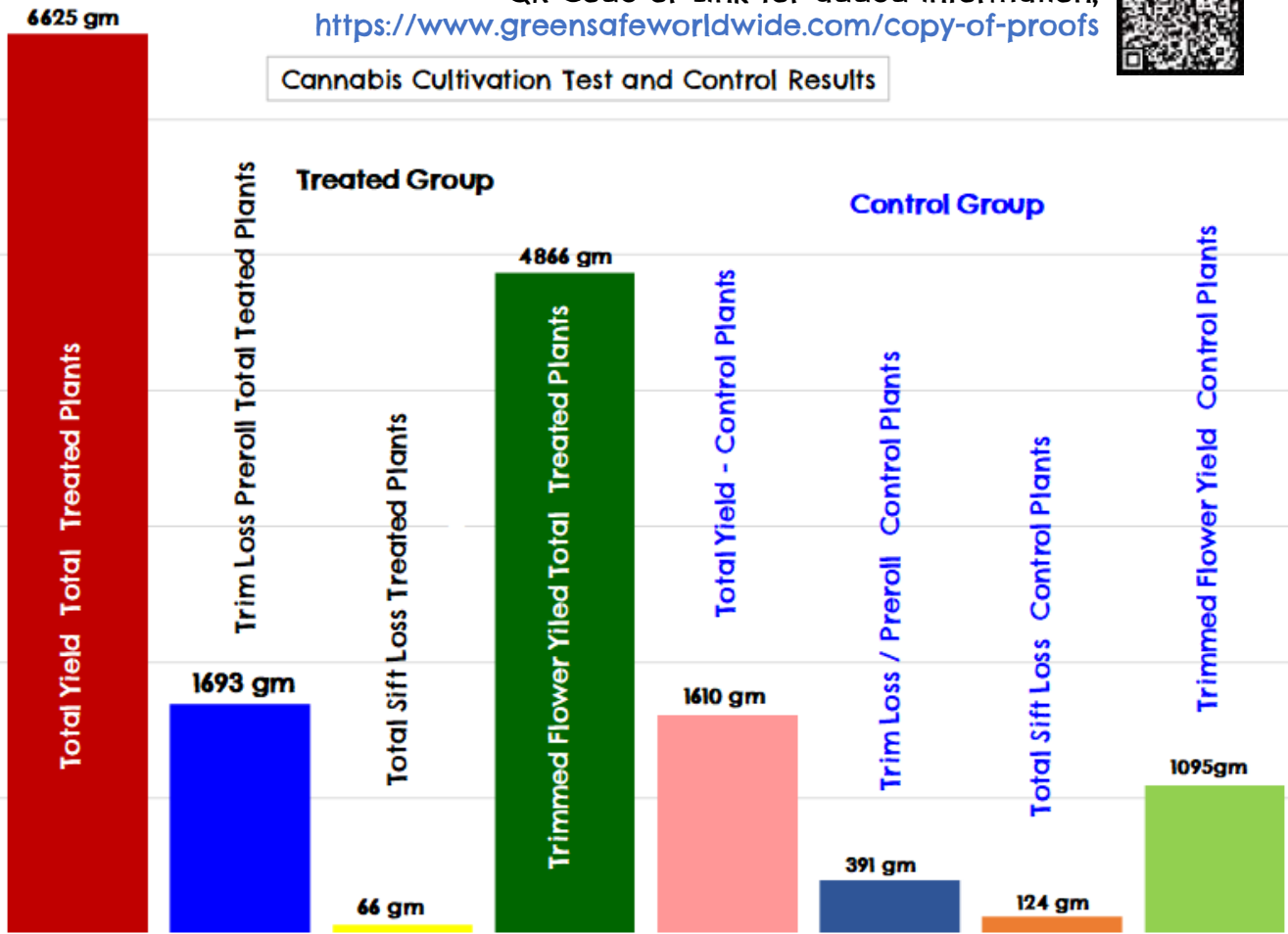


REPORT

CANNABIS GREENHOUSE TEST REPORT
 QR Code or Link for added information;
<https://www.greensafeworldwide.com/copy-of-proofs>



Cannabis Cultivation Test and Control Results



Treated Group Results

Note: Bar chart colors match each bar to the data line below.

CANNABIS CULTIVATION TEST AND CONTROL RESULTS - DATA

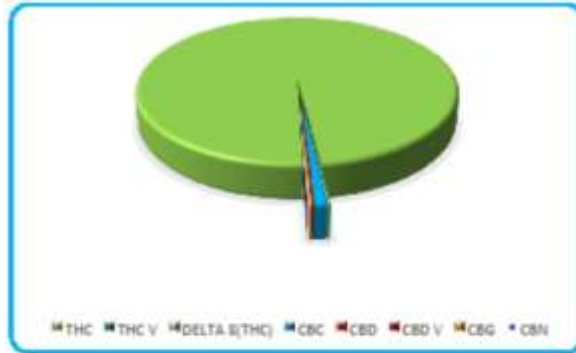
Product	Plant Amendment (PA)
4.0	ml per gallon treat rate
Daily	Application Frequency
Type	Root Drench
\$220.00	Product Cost/Gal. - 1-Gal. Bottle Price
\$0.10	Daily Application Cost
\$10.50	Labor Cost/Hr.
\$12.67	Total Cost/Application
\$912.24	Total Evaluation Cost
1-Aug-17	Start
17-Oct-17	End
23-Nov-17	Analysis Date
90	Test Plants
90	Control Plants
24	High Temp - °C
19	High Temp - °C
75%	High RH (Relative Humidity)
50%	High RH
6625	PA gm Total Yield
1693	PA gm Trim Loss/Preroll
66	Plant Amendment gm Sift Loss
4866	PA gm Trimmed Flower Total Yield
1610	Control gm Total Yield
391	Control gm Trim Loss/Preroll
124	Control gm Sift Loss
1095	Control gm Trimmed Flower Total Yield

Control Group Results

16.50%	PA THC (165.0 mg/g)
0.01%	PA THC V (1 mg/g)
0.02%	PA DELTA 8 _(THC) (.2 mg/g)
0.16%	PA CBD (1.6 mg/g)
0.02%	PA CBD (.2 mg/g)
0.00%	PA CBD V (.0 mg/g)
0.03%	PA CBG (.0 mg/g)
0.01%	PA CBN (1 mg/g)
16.75%	PA Total Cannabinoids (167.5 mg/g)
9.00%	PA Plants Moisture Analysis
Mold	Not Detected
Pest	Not Detected
12.44%	Control THC (124.4 mg/g)
0.03%	Control THC V (.3 mg/g)
0.00%	Control DELTA 8 _(THC) (.0 mg/g)
0.00%	Control CBD (0 mg/g)
0.02%	Control CBD (.2 mg/g)
0.00%	Control CBD V (.0 mg/g)
0.01%	Control CBG (1 mg/g)
0.00%	Control CBN (0 mg/g)
12.50%	Control Total Cannabinoids (125.0 mg/g)
9.00%	Control Plants Moisture Analysis
Pest	Not Detected
171.6	oz. Trimmed Total Flower Yield - PA
38.6	oz. Trimmed Total Flower Yield - Control Plants
133.0	Added ounces from PA plants.
\$232.84	\$/oz. Medium Quality (Source - Hyperlink Below)
\$30,963.06	Dollar value of added oz. from PA treated plants.
\$912.24	Total cost of evaluation PA
\$33.94	\$\$ value per dollar of PA cost.

PHYTO CANNABINOID PROFILE

THC	16.50%	125.0 mg/L
THC V	0.01%	0.08 mg/L
DELTA 9-THC	0.02%	0.2 mg/L
CBC	0.16%	1.3 mg/L
CBD	0.02%	0.2 mg/L
CBD V	0.00%	0.0 mg/L
CBG	0.03%	0.2 mg/L
CBN	0.01%	0.1 mg/L
TOTAL ACTIVE CANNABINOIDS	16.75%	127.0 mg/L
CBD:THC RATIO	0.0	1



MOISTURE ANALYSIS
9%

MICROSCOPIC INSPECTION

MOLD **NOT DETECTED**
PEST **NOT DETECTED**

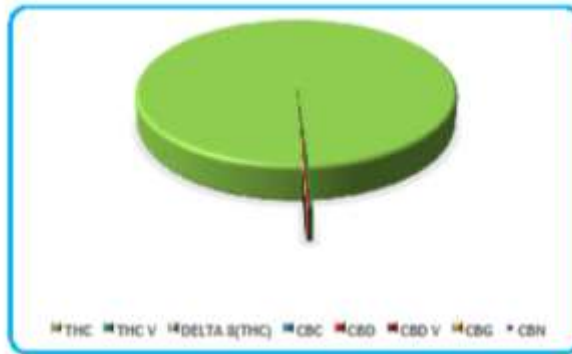
MICROBIAL TEST-CULTURE

NOT TESTED



PHYTO CANNABINOID PROFILE

THC	12.44%	125.0 mg/L
THC V	0.03%	0.30 mg/L
DELTA 9-THC	0.00%	0.0 mg/L
CBC	0.00%	0.0 mg/L
CBD	0.02%	0.2 mg/L
CBD V	0.00%	0.0 mg/L
CBG	0.01%	0.1 mg/L
CBN	0.00%	0.0 mg/L
TOTAL ACTIVE CANNABINOIDS	12.50%	125.0 mg/L
CBD:THC RATIO	0.0	1



MOISTURE ANALYSIS
9%

MICROSCOPIC INSPECTION

MOLD **NOT DETECTED**
PEST **NOT DETECTED**

MICROBIAL TEST-CULTURE

NOT TESTED



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.

Safety Data Sheet

GreenSafe Plant Amendment™

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name: GreenSafe Plant Amendment™
Brand: GreenSafe™
Product Family: Phytochemical Blend
Products Use: Nutrient Enhancer
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. The product is not hazardous.
In case of eye contact: Immediately flush with substantial 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 substantial 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 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 the 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. The 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 managed. 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 evaluated 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. 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

Upper/lower flammability or explosive limits: Not Applicable

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

Other safety information

VOC: Not Determined

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.

contents/container in accordance with regulations.

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 of 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 the 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. The manufacturer shall not be liable for any injury, loss or damage directly or consequently arising from the misuse or inability to use the product.

Prepared for: Green-Safe Solutions, LLC

By: Mg-Help, LLC