

PM 90

58199-5

1/11

November 1996
changes made in response to EPA letter dated November 6, 1996

Burst® Yield Booster® - A Plant Regulator

Active Ingredients:

Cytokinin, as kinetin (based on biological assay) 00.004%

Inert Ingredients

99.996%
100.00 %

*Based on Biological Activity

KEEP OUT OF REACH OF CHILDREN
CAUTION

Harmful if swallowed or absorbed through the skin! Causes skin irritation! Do not breath vapor or spray mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling.

Statement of Practical Treatment

If in eyes: Flush with plenty of water. Get medical attention if irritation persists.
If swallowed: call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.
If on skin: Wash skin with soap and water. Get medical attention if irritation persists.

SEE INSIDE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Registration No. 58199-5
EPA Est. No. 3837-MO-1

Lot No.

Contains 0.10% aminoindole-3-propionic acid

Net Contents: 5 liters (5.28 U.S. Quarts)
(5.4 kg/11.9 lbs.)

Produced for:
P.B.T., Inc.
Corrales, NM 87048

Burst® and Yield Booster® are registered trademarks of P.B.T., Inc.

ACCEPTED

FEB - 6 1997

Under the Federal Insecticides,
Fungicides, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 58199-5

96 NOV 12 P 3:32

REC'D ENVIRONMENTAL YDPD1

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Applicators and other handlers must wear long-sleeved shirt and long pants and shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment. If no such instructions for washables, use detergent and hot water. Keep and wash personal protective equipment separately from other laundry.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS:

Do not contaminate water by cleaning of equipment or disposal of equipment wash water.

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean highwater mark.

Exposed treated seeds may be hazardous to birds and other wildlife. Dispose of all excess treated seed and packaging by burial away from bodies of water.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Before using Burst Yield Booster, read and follow the precautions appearing on the label.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is coveralls, waterproof gloves and shoes plus socks.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Chemigation system

Apply Burst Yield Booster only through the following types of systems: sprinkler, including center pivot, lateral move, end tow, side roll, traveler, big gun, solid set, or hand move; or drip (trickle) irrigation systems. Do not apply this product through any other type of system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non uniform distribution of treated water.

If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable about the chemigation systems and responsible for its operation, or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone (RPZ), back flow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

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Do not apply when wind speed favors drift beyond the area intended for treatment.

Supply pesticide tank agitation, especially if product is to sit in tank for over 6 hours.

Burst Yield Booster may be applied continuously for the duration of water application or with the first quarter to one-half of the watering period.

Mixing instructions: Fill supply tank to 1/4 to 1/2 full. Add Burst Yield Booster and complete filling.

WARRANTY: The manufacturer warrants that this product shall be of its standard quality and shall conform to the label thereon. Recommendations for use of the product are based on tests believed to be reliable. The use of the product being beyond the control of the manufacturer, no guarantee expressed or implied is made as to the effects of such or the results to be obtained, except as expressly set forth on the label hereon. The BUYER must assume all responsibility if not used in accordance with directions or established safe practices, including injury or damage resulting from its misuse as such or in combination with other materials. The manufacturer's liability shall be limited to the replacement without charge, FOB warehouse, of all product shown to be otherwise than as warranted.

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Burst Yield Booster is a natural plant regulator product that contains aminoindole-3-propionic acid and a cytokinin hormone complex which supplements the plant's natural hormones. Burst Yield Booster will promote bud initiation and development, which will improve root growth, increase tillering and branching and promote production of yield bearing components and improve reproductive vigor. Applications early in the plant's life will help manage growth and determine the production potential of the plant. Stress conditions, both environmental and those induced by cultural practices, can cause severe yield loss. Burst Yield Booster can increase the plant's tolerance to stress and increase its ability to compensate for these stress conditions, thus aiding the plant to perform better.

Conditions for Good Activity:

Good growing conditions are necessary for maximum utilization of the yield-enhancing properties of Burst Yield Booster.

For maximum gain, use Burst Yield Booster in combination with a well-balanced fertility program and good management practices. The Company recommends the use of soil or tissue testing, and additional nutrients and micronutrients as needed. Timing of the foliar spray application is very important. Always follow directions precisely. Do not apply when temperatures are above 95° F (36° C) or within eight hours of forecast rain.

Product Compatibility:

Burst Yield Booster may be used with a surfactant and has been successfully applied as a tank mix with herbicides, insecticides and fungicides. However, it is best to be safe and use a "jar compatibility test" and to treat a few plants with any new mixture to test the chemical and plant reaction before large field application.

Application:

All recommended rates are per planted crop acre. Consult your local Burst Yield Booster representatives if you have any questions. Never reduce rates below 1/4 pint (4 oz.) per acre. Never reduce rates when applying with over 30 gallons of water per acre.

Burst Yield Booster may be applied by conventional ground equipment, by aerial application methods, or through the irrigation system. Use sufficient water to provide good foliage coverage. The company does not recommend application of Burst Yield Booster with vegetable oil as the carrier. All equipment should be flushed clean before using. Spraying equipment should be operated with ample agitation. Screens should be removed from nozzles when in use and sprayer must be flushed clean after use. DO NOT store sprayer with Burst Yield Booster solution in it.

Burst Yield Booster for Fruits and Vegetables

Burst has a broad spectrum of activity and is effective on most crops. Timing and rate of application are important. Multiple applications provide multiple benefits. Burst has four practical use programs:

- (1) as a preplant seed treatment;
- (2) as a transplant solution;
- (3) as a foliar spray during the growing and reproductive stages, and
- (4) both transplant and foliar spray programs.

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General Use Instructions

(1) As a seed treatment for seeds to be planted

Burst may be applied to seed up to 6 months prior to planting. Dilute the recommended rate with a sufficient amount of water for uniform coverage. Mix thoroughly to coat seed and allow to dry before planting. Burst can be applied with fungicide treatment or to fungicide treated seed. Do not use treated seed for food, feed or oil purposes. Commercial seed processors must apply with sufficient EPA-approved dye to assure adequate seed coloring. Commercially treated seed must be labeled in accordance with the requirements of the Federal Seed Act. For seed treated at planting, treat only those seeds needed for immediate use and planting. Do not store excess treated seed beyond planting time. Dispose of excess treated seed by burial away from streams and bodies of water.

<u>Crop</u>	<u>Recommended Rate</u>	
	<u>Ounces/10 lbs.</u>	<u>ml/kg.</u>
Wheat, Soybeans, Beans, Peas	0.5 to 1.0	3.0 to 6
Corn, Rice, Grain Sorghum	1.0 to 2.0	6.0 to 12
Alfalfa	1.5 to 3.0	10.0 to 20
Okra, Onion, Parsley, Spinach	2.0 to 6.0	12.0 to 36
Cabbage, Chiles, Peppers, Tomato, Cucumbers, Melons, Cantaloupes, Honeydews, Muskmelons, Watermelons, Squash (all)	3.0 to 6.0	20.0 to 40
Carrot, Lettuce	5.0 to 10.0	30.0 to 60
Potato Seed Pieces	1/250 dip @ 15 seconds	
Sweet corn, Popcorn	2.0 to 4.0	12.0 to 24
Turf Grasses	3 to 5	20 to 30
Cotton, Peanuts	1.0 to 3.0	6.0 to 20

2. Transplants:

For use in setting transplants, two methods are recommended.

A. **Water-in (Drench) Method:** At transplanting, 8 oz. (1/2 pint) of a solution of one (1) part Burst to four hundred (400) parts water should be used to drench the plant and root zone. The Foliar Spray Program should begin two (2) weeks after transplanting.

B. **Seedling Spray or Drench Method:** Bedded seedlings may be sprayed or drenched in flats 12-48 hours before transplanting to reduce transplant shock. The spray or drench should be prepared by mixing one (1) part Burst with four hundred (400) parts water. The Foliar Spray Program should begin two (2) weeks after transplanting.

3. Foliar spray Program:

A. **Basic Foliar Spray Program:** This program is the minimum necessary for economical yield responses. The recommended rates are for each planted crop acre. (See specific recommendations). Apply with sufficient water for thorough foliage coverage. For aerial applications, use 5 gallons/acre.

B. **Alternate Foliar Spray Program:** To promote maximum plant vigor and tolerance Burst Yield Booster may be applied weekly in conjunction with scheduled spray application programs for insect or disease control. (See specific crop recommendations).

4. Combination Program:

With transplanted crops, a Combination program of the Transplant and Foliar Spray Programs is most effective. If you do not use Burst Yield Booster at transplanting, begin with the Foliar Spray Program 2 weeks after transplant.

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APPLICATION INSTRUCTIONS FOR FOLIAR SPRAY

CROP	PROGRAM	No. of APPS.	RATE OZ/ACRE	TIME TO APPLY
Green Beans Bush Pole Halfrunner	Basic	2	16	1st: Apply when the first trifoliolate is unfolded up to the third trifoliolate leaf stage. 2nd: 2 weeks after the first.
Dry Beans	Basic	2 to 3	8	1st: Apply when plants have developed 3 trifoliolate leaves. 2nd: Apply at the beginning of bloom. 3rd: Apply at the beginning of pod fill.
Broccoli Cabbage Lettuce Spinach Celery	Basic Alternate	3 6 to 8	32 16	1st: When the 5th leaf begins to unfold 2nd: 2 weeks after the first 3rd: 2 weeks after the second 1st: When the 5th leaf begins to unfold, then continue applications at 7-10 day intervals throughout the growing season.
Transplant: See Paragraph 2. General Use Instructions.				
Cantaloupe Cucumbers Muskmelon Watermelon Honeydew Winter squash Yellow squash Zucchini	Basic Alternate	2 4 to 6	32 16	1st: Any time after full development of 3rd leaf up to full development of the 8th leaf. If early growth is delayed under cool growing conditions, apply at 6 to 8 leaf stage. 2nd: Two weeks after the first. Apply banded over the row. 1st application when plants have 4 to 8 leaves, then continue applications at 7-10 day intervals throughout the production season.
Transplant: See Paragraph 2. General Use Instructions.				
Tomato Egg Plant Pepper (chiles)	Basic Alternate	3 6 to 8	16 8	1st: When the plants have 3-6 true leaves. 2nd: 2 weeks after the first. 3rd: 2 weeks after the second. 1st: When the plants have 3-6 true leaves, then continue applications at 7-10 day intervals throughout the production season.
Transplant: See Paragraph 2. General Use Instructions.				
Onions	Basic	3	16	1st: At bulbing 2nd: 2 weeks later 3rd: 2 weeks later
Transplants: See Paragraph 2. General Use Instructions.				
Peanuts	Basic	3	16	First: At the third trifoliolate stage Second: 2 weeks later Third: 2 weeks after the second.

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APPLICATION INSTRUCTIONS FOR FOLIAR SPRAY

CROP	PROGRAM	No. of APPS.	RATE OZ/ACRE	TIME TO APPLY
Potato	Seed Piece Dip	1	N.A.	Dip potato pieces in a solution of 1 part Burst to 250 parts water for 20 to 60 seconds. Burst can be used with a fungicide treatment. Follow with foliar spray program.
	Foliar spray	2	16	Apply at tuber initiation (approximately 4 weeks after emergence) and again two weeks later.
Field Corn Popcorn Sweet Corn	Basic	1	16	Apply to multiple earing prolific varieties only. Apply when corn has reached the 5 to 10 leaf growth stage, approximately 4-7 weeks after emergence.
Sorghum		1	8	Apply Burst after crop has reached 3rd leaf stage but before the 7th leaf is visible (approximately 10 to 25 days after emergence.)
Strawberries	Basic	4-6	16-32	Begin spray applications at 1 to 2 weeks after transplanting and continue at 7 to 14 day intervals throughout the production season. Transplants: See Paragraph 2. General Use Instructions.
Winter Wheat		1	16	Apply Burst at the three to six leaf stage or when spring growth has initiated but prior to the growing point moving above ground.
Spring Wheat		1	16	Apply Burst when the third leaf is fully developed up to the time when the sixth leaf is fully developed.
Soybeans		2	8	1st: Apply Burst from the 3rd to 7th trifoliate growth stage 2nd: Apply Burst during early bloom up to beginning of pod fill.
Grapes:		3	16	1st: Apply Burst at the 12-18 inch cane stage to increase bunch size and length, and to support the flowers on the cluster. 2nd: Apply Burst during bloom to improve berry set. 3rd: Apply Burst after berry set to promote berry development.

Cotton: Rates recommended are per planted crop acre.
Seedling cotton: Spray Burst Yield Booster at 2 to 4 oz banded per acre after emergence of the first leaf and again 10 to 15 days later to aid recovery from stress due to cool weather, seedling disease or herbicide damage.
Pinhead Square Application: Apply Burst Yield Booster at 4 oz. (1/4 pint per acre) at pinhead to matchhead square stage.
Bloom application: Apply Burst Yield Booster at 1 pint per acre at first elongated square to first bloom and follow with a second application of 1 pint per acre 2 to 3 weeks later.

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Fruit Trees: Apple, Peach, Orange, Banana

Transplants: Follow general transplant instructions.

Fruit trees in production: Spray fruit trees with a solution of 1 oz Burst Yield Booster in 4 gallons water (or 1 to 2 pints/A) at the following growth stages:

1. At bud break to increase pollination efficiency (Burst will not harm bees or pollinating insects);
2. At 1 week after petal fall to promote cell division;
3. At 20 to 30 days after petal fall to increase fruit size;
4. Monthly during fruit growth and development to promote nutrient translocation to produce larger and better quality fruit.

For best results apply Burst Yield Booster with foliar nutrients, micronutrient or secondary nutrient sprays such as calcium and iron.

Non-Bearing uses for Trees, Fruits, Berries, Shrubs and Woody Ornamentals:

To aid in propagation of trees, fruits, berries, soft wood cuttings, shrubs and woody ornamentals and to reduce transplant shock, to promote growth and vigor and reduce stress in non-bearing fruit trees such as apple, peach; berry and vine crops such as cranberries; evergreen trees such as spruce, fir, pine; deciduous trees such as birch, elm, maple; flowering plants and shrubs such as poinsettia, rose, azalea, rhododendron, crepe myrtle; and for other flowering and non-flowering shrubs.

New Cuttings: Spray Burst Yield Booster at 1 to 2 pints per acre on the stems, branches, vines or canes to be propagated from 1 to 7 days before cutting. After cutting, spray Burst Yield Booster at 1/2 to 1 pint or apply through the irrigation system at weekly intervals until the plants are established.

Replant areas: Spray the trees before cutting. Then spray Burst Yield Booster at 1/2 to 1 ounce per 1500 square feet and irrigate in. Continue weekly to biweekly applications until the plants are established.

Established Trees and Shrubs: Spray 1 to 2 pints per acre, or a mixture of 1 ounce Burst Yield booster to 4 gallons water to thoroughly wet the foliage at any or all of the following growth stages:

1. Early spring to promote bud initiation;
2. At bud break;
3. At terminal calyx;
4. Early to mid fall.

TURF: Spring application: Make an early application of 1 to 2 oz Burst Yield Booster per 1000 sq. ft. to promote tiller, rhizome or stolon growth, to develop a deep root system, and to give the turf a rapid start once winter dormancy is broken and growth begins. Continue monthly 1 oz/1000 sq. ft. applications throughout spring and summer. Spring application is important to develop a deep root system which will condition the turf and reduce the stress of disease and summer heat or low rainfall. Apply Burst with iron sulfate for maximum root growth response.

Fall Application: Two to three applications of Burst Yield Booster (1 oz. per 1000 sq. ft.) should be made in the fall beginning about eight weeks before the turf becomes dormant (eight weeks before first frost date in the northern states) to promote root growth and provide the grass with the vigor to better endure the stress of winter (reduce winter kill) and improve survival of a good healthy turf for the following spring.

Golf Greens, Fairways, Football and Soccer Fields, and Baseball Infields and outfields: At the beginning of spring growth apply 1 to 2 fl. oz. per 1000 square feet at the breaking of dormancy. Make successive maintenance applications of 1/2 to 1 fl. oz. per 1000 sq. ft. at monthly intervals or as needed to maintain root growth, tillering, appearance and vigor throughout the growing season. During periods of intensive use apply 1/2 to 1 fl. oz. per 1000 sq. feet weekly to the

greens, infield or playing field to maintain root structure and renew growth and vigor between games. Make three applications of 1/2 fl. oz. per 1000 sq. ft. at 2 week intervals in the fall beginning about eight (8) weeks before turf becomes dormant to promote root growth and increase winter stamina to reduce winter kill.

Sod: Spray Burst Yield Booster to newly laid sod at 1 to 2 fl. oz. per 1000 sq. ft. to promote rooting and increase the rate of sod establishment. Maintain growth and vigor with monthly applications of 1/2 to 1 fl. oz. per 1000 square feet.

Sod Farming: Spray Burst Yield Booster at 1 to 2 pints/acre monthly to sod fields to promote root, tiller and rhizome growth and to bring the crop to harvest more quickly. Maintain accelerated growth with Burst Yield Booster applications of 1 to 2 pints/acre at 2 to 4 week intervals or as needed. Spray Burst Yield Booster at 1 to 2 pints per acre to sod 1 to 4 days before harvesting to initiate new root growth and speed up establishment when sod is laid.

Lawns, Playgrounds, Parks, Recreational Areas, Landscaped Roadways and Cemeteries: Apply 1 fl. oz. per 1000 square feet at the beginning of spring growth to promote a deep root system and tillering to fill sparse areas. Apply at 1/2 to 1 fl. oz. per 1000 square feet monthly to maintain health and vigor of the turf. Application can be made more frequently as needed to condition the turf for stress or for periods of heavy use.

Nutritional sprays: For better color response from nitrogen, iron, sulfur, zinc and other nutrient sprays use 1/2 to 1 pt Burst Yield Booster per acre with nutrient spray solution. For greens or smaller area, add 1/2 to 1 oz Burst Yield Booster per 3 to 5 gallons spray solution.

NURSERY AND GREENHOUSE USE FOR NON-FOOD CROPS

To promote bud differentiation, cell division, root induction and growth and to reduce apical dominance. Use Burst Yield Booster in your watering program or as a foliar spray.

Propagation of Cuttings: Dip cuttings in rooting hormone powder or solution and stick in rooting medium. Spray or mist cuttings with a solution of 1 oz. Burst Yield Booster to 3 gallons water (1 qt./100 gallons) at weekly intervals until root buds initiate. Then spray at 2 to 4 week intervals.

Transplanting: Add 1 oz. Burst Yield Booster per 3 gallons of transplant solution (fertilizer-water). Drench the root zone. Follow with spray to foliage or add through irrigation system at 2 to 4 week intervals at the rate of 1 quart per 100 gallons..

Production: To increase growth rate, improve quality and resilience of nursery and greenhouse crops, add 1 oz. Burst Yield Booster per 3 gallons (1 quart/100 gallons) of fertilizer or water solution and apply through the irrigation system or via foliar spray.

Nutritional Deficiencies: To promote rapid uptake and correction of nutrient deficiencies in ornamentals and turf, add Burst Yield Booster to Iron, nitrogen fertilizers, zinc or other nutrient solutions at the rate of 1 oz per 3 gallons (1 qt/100 gallons). Apply as a foliar spray or soil drench.

LANDSCAPE MANAGEMENT (see Turf uses also)

Bedding Plants: Spray bedding plants at 2 to 4 week intervals with a solution of 1 oz. Burst Yield Booster per three gallons water, fungicide or nutrient spray to promote growth, flowering and maximum color development.

Lawn Care: Spray Burst Yield Booster to lawns at the rate of 1 oz per 2500 sq. ft. Burst Yield Booster can be added to liquid fertilizer, insecticide, fungicide, or herbicide sprays.

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Transplanting of trees, shrubs or bedding plants: See transplanting instructions under nursery use.

Maintenance: To promote growth and reduce stress from drought, disease or nutrient deficiency. Spray Burst Yield Booster to foliage at the rate of 1 oz. per 3 gallons of water or fertilizer or pesticide solution (1 quart per 100 gallons).

Nutritional Deficiencies: To promote rapid uptake and correction of nutrient deficiencies in ornamentals and turf, add Burst Yield Booster to iron, nitrogen fertilizer, zinc or other nutrient spray solutions at the rate of 1 oz per 3 gallons (1 qt/100 gallons). Apply as a foliar spray or soil drench.

Root Feeding: Mix Burst Yield Booster with root feeding solutions at the rate of 1 oz. per three gallons of nutrient solution.

RECOMMENDED HERBICIDE TANK MIX RATES: Add Burst Yield Booster at the rate of 0.25 to 0.5% of the spray solution (1 to 4 pints per 100 gallons). For use on Burst labelled crops only.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Store in a cool place and out of direct sunlight. Keep from freezing.

DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

SHAKE WELL BEFORE USING.

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Inert Ingredients

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**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Harmful if swallowed or absorbed through the skin! Causes skin irritation! Do not breath vapor or spray mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling.

Statement of Practical Treatment

If in eyes: Flush with plenty of water. Get medical attention if irritation persists.
 If swallowed: call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.
 If on skin: Wash skin with soap and water. Get medical attention if irritation persists.
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EPA Est. No. 3837-MO-1

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96 NOV 12 P 3:32

REC'D CIVIL RIGHTS/DPD1

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Follow manufacturer's instructions for cleaning/maintaining personal protective equipment. If no such instructions for washables, use detergent and hot water. Keep and wash personal protective equipment separately from other laundry.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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Do not contaminate water by cleaning of equipment or disposal of equipment wash water.

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean highwater mark.

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Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone (RPZ), back flow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

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Do not apply when wind speed favors drift beyond the area intended for treatment.

Supply pesticide tank agitation, especially if product is to sit in tank for over 6 hours.

Burst Yield Booster may be applied continuously for the duration of water application or with the first quarter to one-half of the watering period.

Mixing instructions: Fill supply tank to 1/4 to 1/2 full. Add Burst Yield Booster and complete filling.

WARRANTY: The manufacturer warrants that this product shall be of its standard quality and shall conform to the label thereon. Recommendations for use of the product are based on tests believed to be reliable. The use of the product being beyond the control of the manufacturer, no guarantee expressed or implied is made as to the effects of such or the results to be obtained, except as expressly set forth on the label hereon. The BUYER must assume all responsibility if not used in accordance with directions or established safe practices, including injury or damage resulting from its misuse as such or in combination with other materials. The manufacturer's liability shall be limited to the replacement without charge, FOB warehouse, of all product shown to be otherwise than as warranted.

Burst Yield Booster is a natural plant regulator product that contains aminoindole-3-propionic acid and a cytokinin hormone complex which supplements the plant's natural hormones. Burst Yield Booster will promote bud initiation and development, which will improve root growth, increase tillering and branching and promote production of yield bearing components and improve reproductive vigor. Applications early in the plant's life will help manage growth and determine the production potential of the plant. Stress conditions, both environmental and those induced by cultural practices, can cause severe yield loss. Burst Yield Booster can increase the plant's tolerance to stress and increase its ability to compensate for these stress conditions, thus aiding the plant to perform better.

Conditions for Good Activity:

Good growing conditions are necessary for maximum utilization of the yield-enhancing properties of Burst Yield Booster.

For maximum gain, use Burst Yield Booster in combination with a well-balanced fertility program and good management practices. The Company recommends the use of soil or tissue testing, and additional nutrients and micronutrients as needed. Timing of the foliar spray application is very important. Always follow directions precisely. Do not apply when temperatures are above 95° F (36° C) or within eight hours of forecast rain.

Product Compatibility:

Burst Yield Booster may be used with a surfactant and has been successfully applied as a tank mix with herbicides, insecticides and fungicides. However, it is best to be safe and use a "jar compatibility test" and to treat a few plants with any new mixture to test the chemical and plant reaction before large field application.

Application:

All recommended rates are per planted crop acre. Consult your local Burst Yield Booster representatives if you have any questions. Never reduce rates below 1/4 pint (4 oz.) per acre. Never reduce rates when applying with over 30 gallons of water per acre.

Burst Yield Booster may be applied by conventional ground equipment, by aerial application methods, or through the irrigation system. Use sufficient water to provide good foliage coverage. The company does not recommend application of Burst Yield Booster with vegetable oil as the carrier. All equipment should be flushed clean before using. Spraying equipment should be operated with ample agitation. Screens should be removed from nozzles when in use and sprayer must be flushed clean after use. DO NOT store sprayer with Burst Yield Booster solution in it.

Burst Yield Booster for Fruits and Vegetables

Burst has a broad spectrum of activity and is effective on most crops. Timing and rate of application are important. Multiple applications provide multiple benefits. Burst has four practical use programs:

- (1) as a preplant seed treatment;
- (2) as a transplant solution;
- (3) as a foliar spray during the growing and reproductive stages, and
- (4) both transplant and foliar spray programs.



General Use Instructions

(1) As a seed treatment for seeds to be planted

Burst may be applied to seed up to 6 months prior to planting. Dilute the recommended rate with a sufficient amount of water for uniform coverage. Mix thoroughly to coat seed and allow to dry before planting. Burst can be applied with fungicide treatment or to fungicide treated seed. Do not use treated seed for food, feed or oil purposes. Commercial seed processors must apply with sufficient EPA-approved dye to assure adequate seed coloring. Commercially treated seed must be labeled in accordance with the requirements of the Federal Seed Act. For seed treated at planting, treat only those seeds needed for immediate use and planting. Do not store excess treated seed beyond planting time. Dispose of excess treated seed by burial away from streams and bodies of water.

<u>Crop</u>	<u>Recommended Rate</u>	
	<u>Ounces/10 lbs.</u>	<u>ml/kg.</u>
Wheat, Soybeans, Beans, Peas	0.5 to 1.0	3.0 to 6
Corn, Rice, Grain Sorghum	1.0 to 2.0	6.0 to 12
Alfalfa	1.5 to 3.0	10.0 to 20
Okra, Onion, Parsley, Spinach	2.0 to 6.0	12.0 to 36
Cabbage, Chiles, Peppers, Tomato, Cucumbers, Melons, Cantaloupes, Honeydews, Muskmelons, Watermelons, Squash (all)	3.0 to 6.0	20.0 to 40
Carrot, Lettuce	5.0 to 10.0	30.0 to 60
Potato Seed Pieces	1/250 dip @ 15 seconds	
Sweet corn, Popcorn	2.0 to 4.0	12.0 to 24
Turf Grasses	3 to 5	20 to 30
Cotton, Peanuts	1.0 to 3.0	6.0 to 20

2. Transplants:

For use in setting transplants, two methods are recommended.

A. **Water-in (Drench) Method:** At transplanting, 8 oz. (1/2 pint) of a solution of one (1) part Burst to four hundred (400) parts water should be used to drench the plant and root zone. The Foliar Spray Program should begin two (2) weeks after transplanting.

B. **Seedling Spray or Drench Method:** Bedded seedlings may be sprayed or drenched in flats 12-48 hours before transplanting to reduce transplant shock. The spray or drench should be prepared by mixing one (1) part Burst with four hundred (400) parts water. The Foliar Spray Program should begin two (2) weeks after transplanting.

3. Foliar spray Program:

A. **Basic Foliar Spray Program:** This program is the minimum necessary for economical yield responses. The recommended rates are for each planted crop acre. (See specific recommendations). Apply with sufficient water for thorough foliage coverage. For aerial applications, use 5 gallons/acre.

B. **Alternate Foliar Spray Program:** To promote maximum plant vigor and tolerance Burst Yield Booster may be applied weekly in conjunction with scheduled spray application programs for insect or disease control. (See specific crop recommendations).

4. Combination Program:

With transplanted crops, a Combination program of the Transplant and Foliar Spray Programs is most effective. If you do not use Burst Yield Booster at transplanting, begin with the Foliar Spray Program 2 weeks after transplant.

APPLICATION INSTRUCTIONS FOR FOLIAR SPRAY

<u>CROP</u>	<u>PROGRAM</u>	<u>No. of APPS.</u>	<u>RATE OZ/ACRE</u>	<u>TIME TO APPLY</u>
Green Beans Bush Pole Halfrunner	Basic	2	16	1st: Apply when the first trifoliolate is unfolded up to the third trifoliolate leaf stage. 2nd: 2 weeks after the first.
Dry Beans	Basic	2 to 3	8	1st: Apply when plants have developed 3 trifoliolate leaves 2nd: Apply at the beginning of bloom. 3rd: Apply at the beginning of pod fill.
Broccoli Cabbage Lettuce Spinach Celery	Basic Alternate	3 6 to 8	32 16	1st: When the 5th leaf begins to unfold 2nd: 2 weeks after the first 3rd: 2 weeks after the second 1st: When the 5th leaf begins to unfold, then continue applications at 7-10 day intervals throughout the growing season.
Transplant: See Paragraph 2. General Use Instructions.				
Cantaloupe Cucumbers Muskmelon Watermelon Honeydew Winter squash Yellow squash Zucchini	Basic Alternate	2 4 to 6	32 16	1st: Any time after full development of 3rd leaf up to full development of the 8th leaf. If early growth is delayed under cool growing conditions, apply at 6 to 8 leaf stage. 2nd: Two weeks after the first. Apply banded over the row. 1st application when plants have 4 to 8 leaves, then continue applications at 7-10 day intervals throughout the production season.
Transplant: See Paragraph 2. General Use Instructions.				
Tomato Egg Plant Pepper (chiles)	Basic Alternate	3 6 to 8	16 8	1st: When the plants have 3-6 true leaves. 2nd: 2 weeks after the first. 3rd: 2 weeks after the second. 1st: When the plants have 3-6 true leaves, then continue applications at 7-10 day intervals throughout the production season.
Transplant: See Paragraph 2. General Use Instructions.				
Onions	Basic	3	16	1st: At bulbing 2nd: 2 weeks later 3rd: 2 weeks later
Transplants: See Paragraph 2. General Use Instructions.				
Peanuts	Basic	3	16	First: At the third trifoliolate stage Second: 2 weeks later Third: 2 weeks after the second.

APPLICATION INSTRUCTIONS FOR FOLIAR SPRAY

CROP	PROGRAM	No. of APPS.	RATE OZ/ACRE	TIME TO APPLY
Potato	Seed Piece Dip	1	N.A.	Dip potato pieces in a solution of 1 part Burst to 250 parts water for 20 to 60 seconds. Burst can be used with a fungicide treatment. Follow with foliar spray program.
	Foliar spray	2	16	Apply at tuber initiation (approximately 4 weeks after emergence) and again two weeks later.
Field Corn Popcorn Sweet Corn	Basic	1	16	Apply to multiple earing prolific varieties only. Apply when corn has reached the 5 to 10 leaf growth stage, approximately 4-7 weeks after emergence.
Sorghum		1	8	Apply Burst after crop has reached 3rd leaf stage but before the 7th leaf is visible (approximately 10 to 25 days after emergence.)
Strawberries	Basic	4-6	16-32	Begin spray applications at 1 to 2 weeks after transplanting and continue at 7 to 14 day intervals throughout the production season. Transplants: See Paragraph 2. General Use Instructions.
Winter Wheat		1	16	Apply Burst at the three to six leaf stage or when spring growth has initiated but prior to the growing point moving above ground.
Spring Wheat		1	16	Apply Burst when the third leaf is fully developed up to the time when the sixth leaf is fully developed.
Soybeans		2	8	1st: Apply Burst from the 3rd to 7th trifoliolate growth stage 2nd: Apply Burst during early bloom up to beginning of pod fill.
Grapes:		3	16	1st: Apply Burst at the 12-18 inch cane stage to increase bunch size and length, and to support the flowers on the cluster. 2nd: Apply Burst during bloom to improve berry set. 3rd: Apply Burst after berry set to promote berry development.

Cotton: Rates recommended are per planted crop acre.
Seedling cotton: Spray Burst Yield Booster at 2 to 4 oz banded per acre after emergence of the first leaf and again 10 to 15 days later to aid recovery from stress due to cool weather, seedling disease or herbicide damage.
Pinhead Square Application: Apply Burst Yield Booster at 4 oz. (1/4 pint per acre) at pinhead to matchhead square stage.
Bloom application: Apply Burst Yield Booster at 1 pint per acre at first elongated square to first bloom and follow with a second application of 1 pint per acre 2 to 3 weeks later.

Fruit Trees: Apple, Peach, Orange, Banana

Transplants: Follow general transplant instructions.

Fruit trees in production: Spray fruit trees with a solution of 1 oz Burst Yield Booster in 4 gallons water (or 1 to 2 pints/A) at the following growth stages:

1. At bud break to increase pollination efficiency (Burst will not harm bees or pollinating insects);
2. At 1 week after petal fall to promote cell division;
3. At 20 to 30 days after petal fall to increase fruit size;
4. Monthly during fruit growth and development to promote nutrient translocation to produce larger and better quality fruit.

For best results apply Burst Yield Booster with foliar nutrients, micronutrient or secondary nutrient sprays such as calcium and iron.

Non-Bearing uses for Trees, Fruits, Berries, Shrubs and Woody Ornamentals:

To aid in propagation of trees, fruits, berries, soft wood cuttings, shrubs and woody ornamentals and to reduce transplant shock, to promote growth and vigor and reduce stress in non-bearing fruit trees such as apple, peach; berry and vine crops such as cranberries; evergreen trees such as spruce, fir, pine; deciduous trees such as birch, elm, maple; flowering plants and shrubs such as poinsettia, rose, azalea, rhododendron, crepe myrtle; and for other flowering and non-flowering shrubs.

New Cuttings: Spray Burst Yield Booster at 1 to 2 pints per acre on the stems, branches, vines or canes to be propagated from 1 to 7 days before cutting. After cutting, spray Burst Yield Booster at 1/2 to 1 pint or apply through the irrigation system at weekly intervals until the plants are established.

Replant areas: Spray the trees before cutting. Then spray Burst Yield Booster at 1/2 to 1 ounce per 1500 square feet and irrigate in. Continue weekly to biweekly applications until the plants are established.

Established Trees and Shrubs: Spray 1 to 2 pints per acre, or a mixture of 1 ounce Burst Yield booster to 4 gallons water to thoroughly wet the foliage at any or all of the following growth stages:

1. Early spring to promote bud initiation;
2. At bud break;
3. At terminal calyx;
4. Early to mid fall.

TURF: Spring application: Make an early application of 1 to 2 oz Burst Yield Booster per 1000 sq. ft. to promote tiller, rhizome or stolon growth, to develop a deep root system, and to give the turf a rapid start once winter dormancy is broken and growth begins. Continue monthly 1 oz/1000 sq. ft. applications throughout spring and summer. Spring application is important to develop a deep root system which will condition the turf and reduce the stress of disease and summer heat or low rainfall. Apply Burst with iron sulfate for maximum root growth response.

Fall Application: Two to three applications of Burst Yield Booster (1 oz. per 1000 sq. ft.) should be made in the fall beginning about eight weeks before the turf becomes dormant (eight weeks before first frost date in the northern states) to promote root growth and provide the grass with the vigor to better endure the stress of winter (reduce winter kill) and improve survival of a good healthy turf for the following spring.

Golf Greens, Fairways, Football and Soccer Fields, and Baseball Infields and outfields: At the beginning of spring growth apply 1 to 2 fl. oz. per 1000 square feet at the breaking of dormancy. Make successive maintenance applications of 1/2 to 1 fl. oz. per 1000 sq. ft. at monthly intervals as needed to maintain root growth, tillering, appearance and vigor throughout the growing season. During periods of intensive use apply 1/2 to 1 fl. oz. per 1000 sq. feet weekly to the

greens, infield or playing field to maintain root structure and renew growth and vigor between games. Make three applications of 1/2 fl. oz. per 1000 sq. ft. at 2-week intervals in the fall beginning about eight (8) weeks before turf becomes dormant to promote root growth and increase winter stamina to reduce winter kill.

Sod: Spray Burst Yield Booster to newly laid sod at 1 to 2 fl. oz. per 1000 sq. ft. to promote rooting and increase the rate of sod establishment. Maintain growth and vigor with monthly applications of 1/2 to 1 fl. oz. per 1000 square feet.

Sod Farming: Spray Burst Yield Booster at 1 to 2 pints/acre monthly to sod fields to promote root, tiller and rhizome growth and to bring the crop to harvest more quickly. Maintain accelerated growth with Burst Yield Booster applications of 1 to 2 pints/acre at 2 to 4 week intervals or as needed. Spray Burst Yield Booster at 1 to 2 pints per acre to sod 1 to 4 days before harvesting to initiate new root growth and speed up establishment when sod is laid.

Lawns, Playgrounds, Parks, Recreational Areas, Landscaped Roadways and Cemeteries: Apply 1 fl. oz. per 1000 square feet at the beginning of spring growth to promote a deep root system and tillering to fill sparse areas. Apply at 1/2 to 1 fl. oz. per 1000 square feet monthly to maintain health and vigor of the turf. Application can be made more frequently as needed to condition the turf for stress or for periods of heavy use.

Nutritional sprays: For better color response from nitrogen, iron, sulfur, zinc and other nutrient sprays use 1/2 to 1 pt Burst Yield Booster per acre with nutrient spray solution. For greens or smaller area, add 1/2 to 1 oz Burst Yield Booster per 3 to 5 gallons spray solution.

NURSERY AND GREENHOUSE USE FOR NON-FOOD CROPS

To promote bud differentiation, cell division, root induction and growth and to reduce apical dominance. Use Burst Yield Booster in your watering program or as a foliar spray.

Propagation of Cuttings: Dip cuttings in rooting hormone powder or solution and stick in rooting medium. Spray or mist cuttings with a solution of 1 oz. Burst Yield Booster to 3 gallons water (1 qt./100 gallons) at weekly intervals until root buds initiate. Then spray at 2 to 4 week intervals.

Transplanting: Add 1 oz. Burst Yield Booster per 3 gallons of transplant solution (fertilizer-water). Drench the root zone. Follow with spray to foliage or add through irrigation system at 2 to 4 week intervals at the rate of 1 quart per 100 gallons.

Production: To increase growth rate, improve quality and resilience of nursery and greenhouse crops, add 1 oz. Burst Yield Booster per 3 gallons (1 quart/100 gallons) of fertilizer or water solution and apply through the irrigation system or via foliar spray.

Nutritional Deficiencies: To promote rapid uptake and correction of nutrient deficiencies in ornamentals and turf, add Burst Yield Booster to Iron, nitrogen fertilizers, zinc or other nutrient solutions at the rate of 1 oz per 3 gallons (1 qt/100 gallons). Apply as a foliar spray or soil drench.

LANDSCAPE MANAGEMENT (see Turf uses also)

Bedding Plants: Spray bedding plants at 2 to 4 week intervals with a solution of 1 oz. Burst Yield Booster per three gallons water, fungicide or nutrient spray to promote growth, flowering and maximum color development.

Lawn Care: Spray Burst Yield Booster to lawns at the rate of 1 oz per 2500 sq. ft. Burst Yield Booster can be added to liquid fertilizer, insecticide, fungicide, or herbicide sprays.

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Transplanting of trees, shrubs or bedding plants: See transplanting instructions under nursery use.

Maintenance: To promote growth and reduce stress from drought, disease or nutrient deficiency. Spray Burst Yield Booster to foliage at the rate of 1 oz. per 3 gallons of water or fertilizer or pesticide solution (1 quart per 100 gallons).

Nutritional Deficiencies: To promote rapid uptake and correction of nutrient deficiencies in ornamentals and turf, add Burst Yield Booster to iron, nitrogen fertilizer, zinc or other nutrient spray solutions at the rate of 1 oz per 3 gallons (1 qt/100 gallons). Apply as a foliar spray or soil drench.

Root Feeding: Mix Burst Yield Booster with root feeding solutions at the rate of 1 oz. per three gallons of nutrient solution.

RECOMMENDED HERBICIDE TANK MIX RATES: Add Burst Yield Booster at the rate of 0.25 to 0.5% of the spray solution (1 to 4 pints per 100 gallons). For use on Burst labelled crops only.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Store in a cool place and out of direct sunlight. Keep from freezing.

DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

SHAKE WELL BEFORE USING.