



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460
APR 15 1994

Sally Brown Mayeux
P.B.T., INC.
702 CORONADO RD
CORRALES, NM 87048

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 08/02/93 in Response to PR Notice 93-7
EPA Reg. No. 58199-5
BURST YIELD BOOSTER

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

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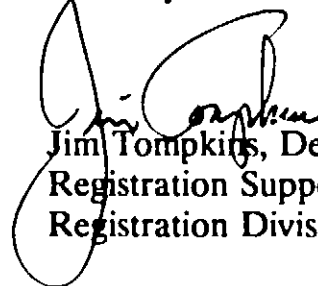
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

P.B.T., INC.
58199-5 08/02/93
BURST YIELD BOOSTER
Original Submission

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

You have incorrect wording in the second-to-last sentence in the first paragraph in the Agricultural Use Requirements box on your proposed label. The sentence must be as follows: "It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval."

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

4912

Burst® Yield Booster® - A Plant Regulator

Active Ingredients:

Cytogen (Cytokinin as Kinetin)	00.004%*
Inert Ingredients	99.996%
	100.000%

*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 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

If in eyes: Flush with plenty of water. Get medical attention if irritation persists.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Est. No. 44616-MO-1 and 3837-MO-1

EPA Registration No. 58199-5

Produced for:

P.B.T., Inc.

Corrales, NM 87048

Net Contents: 5 U.S. Quarts

(10.5 lbs.) (4.7 liters) (4.8 kg)

ACCEPTED
with COMMENTS
In EPA Letter Dated
APR 15 1994

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

58199-5

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(Left Side Panel)

PRECAUTIONARY STATEMENTS

CAUTION

HAZARDS TO HUMANS

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:

Keep out of lakes, ponds or streams. Do not contaminate water when cleaning equipment or disposing of waste.

STORAGE AND DISPOSAL

STORAGE: Store in a cool place and out of direct sunlight. Keep from freezing. Do not contaminate water, food, or feed by storage or disposal.

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.

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

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). 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 12 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.

Read entire label on the container before using this product. It is a violation of Federal Law to use this product in a manner inconsistent with the label.

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Burst Yield Booster is a natural plant regulator product that contains Cytogen[®], a cytokinin hormone complex which acts synergistically with the plant's natural hormones. From the scientific discovery of using plant hormones and plant regulation to increase yield has come a new concept in crop management. It's called Crop Physiology Management[®] (CPM)[®]. CPM, through the use of Burst Yield Booster, can provide the grower a tool for better crop management to maximize its genetic potential to yield. By following the application recommendations, these physiological processes can be optimized to improve production efficiency.

Cytogen 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. Cytogen 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. CPM, through the use of Burst Yield Booster, can increase stress tolerance needed to maintain production efficiency nearer the maximum possible for the growing conditions. The potential result of CPM is higher yields.

Crop Physiology Management is the concept. Burst Yield Booster is the tool. IMPROVED PRODUCTION EFFICIENCY IS THE RESULT.

Conditions for Good Activity:

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

For maximum gain from the use of Burst Yield Booster, a well-balanced plant nutrient program should always be used. Burst Yield Booster, in any of its applications, is not intended to replace fertilizer or to supply nutrients that would normally be added in a conventional fertility program. 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.

Non-Phytotoxic:

All crops tested to date have shown excellent tolerance to Burst Yield Booster, and when used as recommended, the product has not caused any damage to non-target crops.

Toxicology:

Burst Yield Booster is completely safe when used as recommended. According to EPA classification procedure, the product is generally recognized as safe and is classified for general use.

Product Compatibility:

Burst Yield Booster may be used with a surfactant and has been successfully applied as a tank mix with some 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.

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Application:

All recommended rates are per planted crop area. Consult your local Burst Yield Booster representatives if you have any questions. Never reduce rates below 1/4 pint 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.

Use Burst Yield Booster in combination with a well-balanced fertility program and good management practices. The Company recommends the use of soil and tissue testing, and additional nutrients and micronutrients as needed.

WARRANTY

P.B.T., Inc. warrants only that product shall be of standard quality and shall conform to the label there on. There are no representations or warranties, express or implied, except as expressly set forth herein. P.B.T., Inc.'s liability for product purchased by Distributor and Distributor's exclusive remedy, shall be limited to the replacement without charge, FOB P.B.T. warehouse, of all product shown to be otherwise than as warranted. In no event shall Burst be liable to Distributor, Distributor's customers or users for special or consequential damages.

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Burst Yield Booster for Fruits and Vegetables

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

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

General Use Instructions

1. 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. This treatment may be made as a substitute for the in-field water-in drench. 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.

2. Foliar spray Program: Two options are recommended:

A. Basic Foliar Spray Program: This program is the minimum necessary for economical yield responses. The recommended rates are for each planted crop hectare. (See specific recommendations). Apply with sufficient water for thorough foliage coverage.

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)

3. 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 on transplanted crops, begin with the Foliar Spray Program 2 weeks after transplant.

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APPLICATION INSTRUCTIONS

CROP	PROGRAM	NUMBER OF APPLICATIONS	RATE OZ/A	TIME TO APPLY
Green Beans	Basic	2	16	1st: Apply when the first trifoliate is unfolded up to the third trifoliate leaf stage.
Bush				2nd: 2 weeks after the first.
Pole				
Halfrunner	Basic	2 to 3	8	1st: Apply when plants have developed 5 to 8 trifoliate leaves.
Dry Beans				2nd: Apply at the beginning of pod fill.
Broccoli	Basic	3	32	1st: When the 5th leaf begins to unfold
Cabbage				2nd: 2 weeks after the first
Lettuce				3rd: 2 weeks after the second
Spinach				
Celery				
	Alternate	6 to 8	16	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.

Combination: See Paragraph 3. General Use Instructions.

Cantaloupe	Basic	2	32	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.
Cucumbers				2nd: Two weeks after the first.
Muskmelon				Apply banded over the row.
Watermelon				1st application when plants have 4 to 8 leaves, then continue applications at 7-10 day intervals throughout the production season.
Honeydew				
Winter squash	Alternate	4 to 6	16	
Yellow squash				
Zucchini				

Transplant: See Paragraph 2. General Use Instructions.

Combination: See Paragraph 3. General Use Instructions.

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Tomato				1st: When the plants have 3-6 true leaves.
Egg Plant	Basic	3	16	2nd: 2 weeks after the first.
Bell Pepper				3rd: 2 weeks after the second.
Chiles				
	Alternate	6 to 8	8	1st: When the plants have 3-6 true leaves, then continue applications at 7-10 intervals throughout the production season.
Transplant: See Paragraph 2. General Use Instructions.				
Combination: See Paragraph 3. General Use Instructions.				
Potato	Seed Piece Dip	1	N.A.	Dip potato pieces in a solution of 1 part Burst to 400 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.

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Field Corn	Basic	1	16	Apply to multiple earing prolific varieties only. Apply when corn has reached the 6 to 10 leaf leaf growth stage, approximately 4-7 weeks after emergence.
Popcorn				
Sweet Corn				
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.)
Winter Wheat		1	16	Apply Burst 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 during berry set to promote berry development.

Cotton:

Application Rate: 1/2 pint per acre in sufficient water to assure thorough crop coverage. Rates recommended are per planted crop acre.

Early bloom applications:

Single applications: Apply Burst Yield booster at 1/2 pint per acre at any time beginning with first elongated square up to 2 weeks after first bloom.

Double application option: apply Burst Yield Booster at 1/2 pint per acre at first elongates square to first bloom and follow with a second application of 1/2 pint per acre 2 weeks later.

Pinhead Square Applications with Chlordimeform: (Galecron® or Fundal®):

If your crop management program includes chlordimeform application beginning at pinhead square, we recommend the addition of Burst Yield Booster at 2 oz. (1/8 pint) per acre with each application of chlordimeform. Apply the Burst Yield Booster-chlordimeform tank mix weekly for a total of 4 applications. Do not apply Burst Yield Booster alone at this growth stage.

(*) Galecron is a trademark of Ciba Geigy. Fundal is a trademark of Nor Am Agricultural Products, Inc.