

PM 90

58199-9

1/0

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Biopesticides and Pollution Prevention Division (7501W)  
401 M Street, S.W.  
Washington, DC 20460

EPA Reg. Number:  
058199-9

Date of Issuance:  
FEB - 6 1997

Term of Issuance: Unconditional

Name of Pesticide Product:

Cyto-Booster

NOTICE OF PESTICIDE:

X Registration  
\_\_\_\_ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

P.B.T., Inc.  
702 Coronado Road  
Corrales, NM 87048

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The Food Quality Protection Act (FQPA) was signed into law on August 3, 1996. Although full implementation of FQPA has not been achieved, the Agency has no reason to believe that the registration of this product will, in any way, violate the terms of the Act. If EPA determines, as a result of the FQPA implementation process, that the decision to register this product is no longer appropriate, the Agency will consider itself free to pursue whatever action may be appropriate, including, but not limited to, reconsideration of the registration decision.

This product is unconditionally registered in accordance with FIFRA Sec. 3(c)(5) provided you:

1. Submit and /or cite all data required for registration/reregistration of your product under FIFRA Sec.3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA Sec.4.
2. On the label, in the chemigation section, move the phrase which begins with "or in cases where there is no water pump....." to the end of the sentence which begins "The system must contain functional interlocking controls..."
3. Submit five (5) copies of the final printed label for the record.

The Agency notes that the supplier of the active ingredient in your product has not yet fulfilled the requirements of reregistration as noted in the Cytokinin Reregistration Eligibility Decision (RED) document dated December 1995. If your supplier fails to respond to the RED within the required time, the registration of that product may be cancelled. You would then be required to locate another source for your active ingredient and apply to the Agency for amendment of formulation.

Signature of Approving Official: See page 2 for signature of approving official

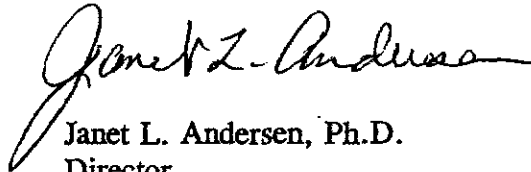
Date:

CONCURRENCES

SYMBOL	7501W	7501W					
SURNAME	Kaize	TORRE					
DATE	2/4/97	2/5/97					

A stamped copy of the final draft label is enclosed for your records. Any questions may be directed to Joan Karrie, Regulatory Action Leader for this action, at (703) 308-8699, fax (703) 308-7026.

Sincerely,



Janet L. Andersen, Ph.D.  
Director  
Biopesticides and Pollution  
Prevention Division (7501W)





**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), notification to workers 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.

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

**Chemigation system**

Apply Cyto-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.



7/10

**GENERAL USE INSTRUCTIONS – FOOD CROPS**

For best results, Cyto-Booster should be applied before noon or after four p.m. A spreader/sticker/surfactant cleared for application to growing crops should be used with the product. Store Cyto-Booster in a cool dry place and out of direct sunlight. Any spigot or pump put into a Cyto-Booster drum should be cleaned with disinfectant (bleach and water, etc.) before using, unless the whole drum is to be used at one time. Mix Cyto-Booster with enough water to get thorough coverage of plant surfaces. Cyto-Booster is compatible with most other spray materials.

**CROP USAGE - ALL CROPS LISTED FOR STRESS RELIEF**

Use 1 pint Cyto-Booster per acre in not less than three gallons by air and up to 40 gallons by ground anytime a crop is prematurely dying down (loss of color) due to stress caused by one or more of the following conditions: weather (frost, drought, excessive moisture), insect infestation, fungus attack, and/or herbicide burn.

**CROP USAGE – ALL CROPS LISTED FOR TRANSPLANTING AND SEED BED TREATMENT**

Use 2 pints Cyto-Booster per acre or 1 part Cyto-Booster to 1000 parts water (approximately 1 tablespoon Cyto-Booster to 4 gallons water) as a root dip and watering solution when transplanting.

**CROP USAGE – APPLE – 1 pint/acre each application**

- 1<sup>st</sup> application: at full pink
- 2<sup>nd</sup> application: at calyx (petal fall)
- 3<sup>rd</sup> application: 3 weeks after 2<sup>nd</sup> spraying.
- 4<sup>th</sup> application: 4 weeks after 3<sup>rd</sup> spraying.

**CROP USAGE – CARROTS – 1 pint/acre each application**

- 1<sup>st</sup> application: At tuber initiation
- 2<sup>nd</sup> application: 2 to 3 weeks after 1<sup>st</sup> spraying.

**CROP USAGE - CELERY**

- 1<sup>st</sup> application: Use 2 pints Cyto-Booster per acre applied to the seed bed at time of seeding or up to 20 days thereafter.
- 2<sup>nd</sup> application: Use 2 pints Cyto-Booster per acre at the time seedlings are transplanted; see Transplanting instructions above.
- 3<sup>rd</sup> application: Use 1 pint Cyto-Booster per acre 2 to 3 weeks after transplanting.

**CROP USAGE - CORN 1 pint/acre each application**

- 1<sup>st</sup> application: at the 1 to 1 1/2 ft. stage.
- 2<sup>nd</sup> application: at tassel time.

**CROP USAGE – COTTON**

Pinhead square: Apply 2 to 4 fluid ounces/acre weekly for 4 weeks beginning at pinhead square.  
 First bloom: Apply 1/2 pint/acre at first white flower and again two weeks later.  
 Stripper cotton: Apply single application of 1/2 pint/acre during the first two weeks of bloom.

**CROP USAGE – GRAPES – 1 pint/acre each application**

- 1<sup>st</sup> application: Between leafout and prebloom.
- 2<sup>nd</sup> application: At petal fall.
- 3<sup>rd</sup> application: After harvest.

**CROP USAGE – ORANGES – 1 pint/acre each application**

- 1<sup>st</sup> application: At prebloom
- 2<sup>nd</sup> application: At calyx (petal fall)
- 3<sup>rd</sup> application: 3 weeks after 2<sup>nd</sup> spraying.
- 4<sup>th</sup> application: 4 weeks after 3<sup>rd</sup> spraying.

**CROP USAGE – PEACHES – 1 pint/acre each application**

- 1<sup>st</sup> application: At prebloom
- 2<sup>nd</sup> application: At calyx (petal fall)
- 3<sup>rd</sup> application: 3 weeks after 2<sup>nd</sup> spraying.
- 4<sup>th</sup> application: 4 weeks after 3<sup>rd</sup> spraying.

**CROP USAGE – PEANUTS – 1 pint/acre each application**

- 1<sup>st</sup> application: At pegging
- 2<sup>nd</sup> application: 2 to 3 weeks after 1<sup>st</sup> spraying.

**CROP USAGE – PEPPERS – 1 pint/acre each application**

- 1<sup>st</sup> application: just prior to first bloom.
- 2<sup>nd</sup> application: 10 days after 1<sup>st</sup> spraying
- 3<sup>rd</sup> application: 10 days after 2<sup>nd</sup> spraying

**CROP USAGE – POTATOES – 1 pint/acre each application**

- 1<sup>st</sup> application: At tuber set. The time of application is determined by pulling an average size plant in the field 4 weeks (after every 7 days thereafter if necessary) after planting.
- 2<sup>nd</sup> application: At full blossom. Russet Burbanks, which do not show full blossom, should be sprayed 2 to 3 weeks after 1<sup>st</sup> spraying of Cyto-Booster.

**CROP USAGE – SOYBEANS – 1 pint/acre each application**

Application: At first bud formation.

**CROP USAGE – STRAWBERRIES**

- 1<sup>st</sup> application: Use 2 pints Cyto-Booster per acre as a transplant solution; see Transplanting instructions above.
- 2<sup>nd</sup> application: Use 1 pint Cyto-Booster per acre at prebloom.
- 3<sup>rd</sup> application: Use 1 pint Cyto-Booster per acre at petal fall.
- 4<sup>th</sup> application: Use 1 pint Cyto-Booster per acre after harvest.

**CROP USAGE – SUGAR BEETS – 1 pint/acre each application**

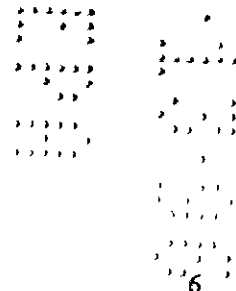
- 1<sup>st</sup> application: At tuber initiation.
- 2<sup>nd</sup> application: 2 to 3 weeks after 1<sup>st</sup> spraying.

**CROP USAGE – TOMATOES**

- 1<sup>st</sup> application: Use 2 pints Cyto-Booster per acre applied to the seedbed at time of seeding or up to 20 days thereafter.
- 2<sup>nd</sup> application: Use 2 pints Cyto-Booster per acre at the time seedlings are transplanted; see Transplanting Instructions above.
- 3<sup>rd</sup> application: use 1 pint Cyto-Booster per acre 2 to 3 weeks after 1<sup>st</sup> bloom.

**CROP USAGE – WHEAT – 1 pint/acre each application**

Application: 1 to 2 weeks before boot stage.





9/10

### GENERAL USE INSTRUCTIONS -- NON-FOOD CROPS

For best results, Cyto-Booster should be applied before noon or after four p.m. A spreader/sticker/surfactant cleared for application to growing crops should be used with the product. Store Cyto-Booster in a cool dry place and out of direct sunlight. Any spigot or pump put into a Cyto-Booster drum should be cleaned with disinfectant (bleach and water, etc.) before using, unless the whole drum is to be used at one time. Mix Cyto-Booster with enough water to get thorough coverage of plant surfaces. Cyto-Booster is compatible with most other spray materials.

### Part A: TRANSPLANT SOLUTION INSTRUCTIONS

As a root dip and watering solution for transplants, use 2 pints Cyto-Booster per acre or 1 part Cyto-Booster to 1000 parts water (approximately 1 tablespoon Cyto-Booster to 4 gallons water).

### PART B: STRESS RELIEF INSTRUCTIONS

Any time a plant is prematurely dying down (loss of color) due to stress caused by one of the following conditions: weather (frost, drought, excessive moisture), insect infestation, fungus attack and/or herbicide burn, spray 1 pint Cyto-Booster per acre.

### EVERGREEN TREES AND DECIDUOUS TREES

For evergreens such as spruce, fir and pine, and for Deciduous trees such as birch, elm and maple: Transplant Solution: See General Use Instructions--Part A: Transplant Solution Instructions.

1<sup>st</sup> application: Early spring (root initiation): spray 1 pint Cyto-Booster per acre or 1 part Cyto-Booster to 2,000 parts water (approximately 1 tablespoon Cyto-Booster to 8 gallons water) until all plant surfaces are wetted.

2<sup>nd</sup> application: At bud formation, spray 1 pint Cyto-Booster per acre or 1 part Cyto-Booster to 2000 parts water (approximately 1 tablespoon Cyto-Booster to 8 gallons water) until all plant surfaces are wetted.

3<sup>rd</sup> application: Terminal calyx, spray 1 pint Cyto-Booster per acre or 1 part Cyto-Booster to 2000 parts water (approximately 1 tablespoon Cyto-Booster to 8 gallons water) until all plant surfaces are wetted.

4<sup>th</sup> application: Early to mid-fall, spray 1 pint Cyto-Booster per acre or 1 part Cyto-Booster to 2000 parts water (approximately 1 tablespoon Cyto-Booster to 8 gallons water) until all plant surfaces are wetted.

Stress Relief: See General Use Instructions--Part B: Stress Relief Instructions.

### ORNAMENTAL PLANTS

For flowering plants such as geraniums, marigolds, and roses, and for Nonflowering plants such as ferns, ivies, and jades:

Transplant Solution: See General Use Instructions -- Part A: Transplant Solution Instructions.

Application: Flowering plants and nonflowering plants should be sprayed monthly at a rate of 1 pint Cyto-Booster per acre or 1 part Cyto-Booster to 2000 parts water (approximately 1 tablespoon Cyto-Booster to 8 gallons water) until all plant surfaces are wetted. Flowering plants should have their initial spraying at prebloom stage.

Stress Relief: See General Use Instructions--Part B: Stress Relief Instructions.

### LAWN SEED TREATMENT FOR INCREASED GERMINATION AND ROOT GROWTH

Either use 1/2 pint Cyto-Booster and enough water to treat 100 pounds of seed by soaking, or spray one acre of the seed bed with 1 quart Cyto-Booster diluted with 250 gallons water.

10/1/19

Do not use treated seed for food, feed or oil purposes. 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.

**LAWN SEED HYDROMULCHING FOR INCREASED GERMINATION AND ROOT GROWTH**

**Application:** Use 1 pint Cyto-Booster per acre mixed with seed, fertilizer, and mulch for blown application.

**TURFS AND LAWNS**

Use Cyto Booster for all ornamental turf grasses and in sod farming. Apply 1 to 1 1/2 gallons Cyto Booster per acre per season (3 to 4 1/2 ounces per 1000 square feet per season or 1 ounce per 1000 square feet each month throughout season) to promote vigor and root growth of turf on golf courses, parks, and other sports fields (soccer, football, baseball), home lawns and for production of sods such as zoysia, bluegrass, fescue, buffalo grass and other ornamental sod production. Make application with sufficient water to provide good coverage, usually not less than 10 gallons per acre up to 200 gallons per acre. Make first Cyto Booster application at any time during the growing season, but preferably at the initial stages of spring growth.

**Stress Relief:** See General Use Instructions--Part B Stress Relief instructions.

**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.