



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 25, 2021

Mr. N. Bushan Mandava
Agent for Atlantic Laboratories, Inc.
Atlantic Laboratories, Inc.
41 Cross St.
Waldoboro, Maine 04572

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Creating a Master Label to include both food uses (Sub Label A) and non-crop uses (Sub Label B)
Product Name: Nitrozyme Concentrate
EPA Registration Number: 45246-1
Application Date: 05-24-2021
OPP Submission Number: 1070166
OPP Case Number: 00303007

Dear Mr. Mandava:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration

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process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Nina Naimy via email at naimy.nina@epa.gov.

Sincerely,

A handwritten signature in blue ink that reads "Andrew C. Bryceland". The signature is fluid and cursive, with the first name being the most prominent.

Andrew Bryceland, Team Leader
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure

Master Label



A C C E P T E D

08/25/2021

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 45246-1

Sub label A: For Crop Use

- A. **Fruit Crops:** Apple, Grapes, Oranges, Peaches, Strawberries, Tomatoes.
- B. **Vegetable Crops:** Carrots, Celery, Peppers, Potatoes, Soybeans, Sugar Beets.
- C. **Field Crops:** Corn, Cotton, Peanuts, Wheat.

Sub label B: For Nonfood Crop Use

- A. **Evergreen and Deciduous Trees**
- B. **Ornamental Plants**
- C. **Turfs and Lawns**
- D. **Germination and Root Growth**

Active Ingredient	
Cytokinin, as kinetin.....	0.04%
Other Ingredients.....	99.96%
	TOTAL 100.00%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

NET CONTENTS: □2.5 U.S. Gal. □5 gallons – (2 x 2.5 U.S. Gal.) □5 U.S. Gal. □275 U.S. Gal.

LOT No. _____

Manufactured by:



Atlantic Laboratories, INC
41 Cross Street
Waldoboro, Maine, 04572

EPA EST. NO. 45246-ME-1
EPA REG. NO. 45246-1

Sub Label A



The plant growth regulator for increased quality and marketable yields.

Active Ingredient	
Cytokinin, as kinetin.....	0.04%
Other Ingredients.....	99.96%
	TOTAL 100.00%

KEEP OUT OF REACH OF CHILDREN

CAUTION

See additional precautionary statements on the left panel

FIRST AID

IF ON SKIN: Take off contaminated clothing. Immediately rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center, or doctor, or going for treatment.

HOT LINE NUMBER: If over-exposure occurs, call your poison control center at **1-800-222-1222.**

NET CONTENTS: 2.5 U.S. Gal. 5 gallons – (2 x 2.5 U.S. Gal.) 5 U.S. Gal. 275 U.S. Gal.

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EPA EST. NO. 45246-ME-1
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PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Harmful if absorbed through the skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before use. Wear the appropriate Personal Protective Equipment (PPE).

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves and shoes plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE 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 PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. The 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 entry into treated areas during the restricted entry interval (REI) of 12 hours.

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

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 the product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

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

ENVIRONMENTAL HAZARDS

For terrestrial uses, do not apply directly above water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate by disposal of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

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.

GENERAL USE INSTRUCTIONS

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

STRESS RELIEF

Use 1 pint Nitrozyme per acre any time a crop is prematurely drying 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.

TRANSPLANTING AND SEED BED TREATMENT

Use 1 pints Nitrozyme per acre or 1 part Nitrozyme to 1000 parts water (approximately 1 tablespoon Nitrozyme to 4 gallons of water) as a root dip and watering solution when transplanting. Use 2 pints of Nitrozyme per acre applied to the seed bed at time of seeding or up to 20 days thereafter.

APPLE

1 pint/acre each application

- 1st application: At full pink
- 2nd application: At calyx (petal fall)
- 3rd application: 3 weeks after 2nd spraying
- 4th application: 4 weeks after 3rd spraying

CARROTS

1 pint/acre each application

- 1st application: At tuber initiation
- 2nd application: 2 to 3 weeks after 1st spraying

CELERY

- 1st application: Use 2 pints Nitrozyme per acre applied to the seed bed at time of seeding or up to 20 days thereafter.
- 2nd application: Use 2 pints Nitrozyme per acre at the time seedlings are transplanted. See Transplanting Instructions.
- 3rd application: Use 1 pint Nitrozyme per acre 2 to 3 weeks after transplanting.

CORN

1 pint/acre each application

- 1st application: At the 1 to 1 1/2 foot stage
- 2nd application: At tassel time

COTTON

Pinhead square: Apply 2 to 4 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 first two weeks of bloom.

GRAPES

1 pint/acre each application

1st application: Between leaf out and prebloom

2nd application: At petal fall

3rd application: After harvest

ORANGES

1 pint/acre each application

1st application: At prebloom

2nd application: At calyx (petal fall)

3rd application: 3 weeks after 2nd spraying

4th application: 4 weeks after 3rd spraying

PEACHES

1 pint/acre each application

1st application: At prebloom

2nd application: At calyx (petal fall)

3rd application: 3 weeks after 2nd spraying

4th application: 4 weeks after 3rd spraying

PEANUTS

1 pint/acre each application

1st application: At pegging

2nd application: At 2 to 3 weeks after 1st spraying

PEPPERS

1 pint/acre each application

1st application: Just prior to first bloom

2nd application: 10 days after 1st spraying

3rd application: 10 days after 2nd spraying

4th application: 10 days after 3rd spraying

POTATOES

1 pint/acre each application

1st application: At tuber set. The time of application is determined by putting an average sized plant in the field 4 weeks (and every 7 days thereafter if necessary) after planting.

2nd application: At full blossom. Russet Burbanks, which do not show full blossom, should be sprayed 2 to 3 weeks after 1st spraying of Nitrozyme.

SOYBEANS

Application: 1 pint/acre at first bud formation

STRAWBERRIES

1st application: Use 2 pints Nitrozyme per acre as a transplant solution. See Transplanting Instructions.

2nd application: Use 1 pint per acre at prebloom.
3rd application: Use 1 pint per acre at petal fall.
4th application: Use 1 pint per acre after harvest.

SUGAR BEETS

1 pint/acre each application

1st application: At tuber initiation
2nd application: 2 to 3 weeks after 1st spraying

TOMATOES

1st application: Use 2 pints Nitrozyme per acre applied to the seedbed at time of seeding or up to 20 days thereafter.
2nd application: Use 2 pints Nitrozyme per acre at the time seedlings are transplanted. See Transplanting Instructions.
3rd application: Use 1 pint Nitrozyme per acre 2 to 3 weeks after 1st bloom.

WHEAT

Application: 1 pint/acre 1 to 2 weeks before boot stage.

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.

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

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available.

WARRANTY STATEMENT

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this 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 if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.

Sub Label B



The plant growth regulator for increased quality and marketable yields.

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Other Ingredients.....	99.96%
	TOTAL 100.00%

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TRANSPLANTING SOLUTION INSTRUCTIONS

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

STRESS RELIEF FOR TREES AND ORNAMENTAL PLANTS, TURFS, AND LAWNS

Spray 1 to 2 pints Nitrozyme per acre any time a plant is prematurely drying 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.

EVERGREEN AND DECIDUOUS TREES

For evergreens such as spruce, fir and pine, and for the deciduous trees such as birch, elm, and maple:

1st application: Early spring (root initiation), spray 1 pint Nitrozyme per acre or 1 part Nitrozyme to 2000 parts water (approximately 1 tablespoon Nitrozyme to 8 gallons water) until all plant surfaces are wet.

2nd application: At bud formation, spray 1 pint Nitrozyme per acre or 1 part Nitrozyme to 2000 parts water (approximately 1 tablespoon Nitrozyme to 8 gallons water) until all plant surfaces are wet.

3rd application: Terminal calyx, spray 1 pint Nitrozyme per acre or 1 part Nitrozyme to 2000 parts water (approximately 1 tablespoon Nitrozyme to 8 gallons water) until all plant surfaces are wet.

4th application: Early to mid-fall, spray 1 pint Nitrozyme per acre or 1 part Nitrozyme to 2000 parts water (approximately 1 tablespoon Nitrozyme to 8 gallons water) until all plant surfaces are wet.

ORNAMENTAL PLANTS

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

Application: Flowering plants and non-flowering plants should be sprayed monthly at a rate of 1 pint Nitrozyme per acre or 1 part Nitrozyme to 2000 parts water (approximately 1 tablespoon Nitrozyme to 8 gallons water) until all plant surfaces are wet. Flowering plants should have their initial spraying at pre-bloom stage.

LAWN SEED TREATMENT FOR INCREASED GERMINATION AND ROOT GROWTH

Either use ½ pint Nitrozyme and enough water to treat 100 pounds of seed by soaking, or spray one acre of the seed bed with 1 quart Nitrozyme diluted with 250 gallons of water.

LAWN SEED HYDROMULCHING FOR INCREASED GERMINATION AND ROOT GROWTH

Application: Use 1 pint Nitrozyme per acre mixed with seed, fertilizer, and mulch for blown application.

TURFS AND LAWNS

Application: 0.2 to 1 ounce per 1000 square feet, per month throughout the growing season. First application should be made at initial stages of growth.

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.

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

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available.

WARRANTY STATEMENT

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this 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 if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.