



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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 16, 2017

Beth Anderson
Regulatory Manager
Arysta LifeScience North America,
LLC 15401 Weston Parkway, Suite 150
Cary, NC 27513

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment -
Add California Footnotes to the product label and Change the current Primary Brand
Name from "Biozyme" to "RIO"
Product Name: Rio
EPA Registration Number: 66330-381
Application Date: 4/3/2017
OPP Decision Number: 527980

Dear Ms. Anderson:

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

The primary brand name of this product has been changed from Biozyme to RIO, and our records have been updated accordingly. 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. The next label printing of this product must use this labeling unless subsequent changes have been approved. 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 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 Sandra Owusu-Ansah of my team by phone at (703) 347-0350 or via email at owusu-ansah.sandra@epa.gov.

Sincerely,

A handwritten signature in blue ink, reading "Andrew C. Bryceland". The signature is fluid and cursive, with the first name "Andrew" and last name "Bryceland" clearly legible.

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

Enclosure



Arysta LifeScience

[Text in brackets is optional]

[1-0-5 (fertilizer analysis)]

RIO™

**Plant Growth Stimulant
For Foliar Application
Enriched with Micronutrients**

ACCEPTED

06/16/2017

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 66330-381

ACTIVE INGREDIENTS:	% BY WT.
Gibberellic Acid (GA ₃)*	0.0033%
Indole Acetic Acid (IAA)*	0.0033%
Cytokinin*	0.0085%
OTHER INGREDIENTS:	<u>99.9849%</u>
TOTAL:	100.0000%

*Equivalent to 33 ppm GA₃ activity, 33 ppm IAA activity, and 85 ppm Zeatin activity, respectively, as measured by bioassay.

**KEEP OUT OF REACH OF CHILDREN
CAUTION / PRECAUCIÓN**

**Si usted no entiende la etiqueta, busque a alguien a quien se la explique a usted en detalle.
(If you do not understand this label, find someone to explain it to you in detail.)**

See inside [booklet] for complete Precautionary Statements and Directions for Use

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

FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL PROPHARMA:

1-866-303-6952 or +1-651-603-3432.

FOR 24-HOUR CHEMICAL EMERGENCY (Spills, leaks, fire, exposure, or accident) CALL CHEMTREC: 1-800-424-9300 or +1-703-527-3887.

For PRODUCT USE INFORMATION: Call 1-866-761-9397

EPA Reg. No.: 66330-381

xxxxxxV002

[Batch Code will be placed on the container]

**Manufactured For:
ARYSTA LIFESCIENCE NORTH AMERICA, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513**

EPA Est. No.:

NET CONTENTS:

[NET WEIGHT:]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long sleeved shirt and long pants;
- Shoes plus socks; and
- Chemical resistant gloves made of any waterproof material (nitrile rubber \geq 14 mils, butyl rubber \geq 14 mils, neoprene rubber \geq 14 mils, polyvinyl chloride (PVC) \geq 14 mils, viton \geq 14 mils, and/or barrier laminate).

Follow manufacturer's directions for cleaning/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/PPE immediately if pesticide gets inside. Then, wash thoroughly and change into clean clothing.
- Remove PPE 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 apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing 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 workers may be in the area during application. For any requirement specific to your state or tribe, consult the state or tribal 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) 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 long sleeved shirt and long pants, shoes plus socks, and chemical resistant gloves made of any waterproof material (nitrile rubber \geq 14 mils, butyl rubber \geq 14 mils, neoprene rubber \geq 14 mils, polyvinyl chloride (PVC) \geq 14 mils, viton \geq 14 mils, and/or barrier laminate).

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 or dusts have settled.

GENERAL INFORMATION

RIO™ is a unique biochemical plant growth stimulator derived from plant extracts and enriched with micronutrients. It is formulated specifically to improve / enhance / optimize crop yield and quality. **RIO** improves flower and fruit setting, fruit growth and quality, as well as general plant growth and vigor. This product is specifically formulated to provide micronutrients to the stimulated plant in order to maintain plant vigor and strength. In addition, when growing conditions stress plants, **RIO** helps plants to recover by providing a source of nutrients.

Compatibility: **RIO** is compatible with all neutral pH agrochemicals and inoculants.

Apply **RIO** as a foliar spray in enough water to thoroughly cover the foliage, usually 20 to 100 gallons per acre for ground equipment and 5 to 10 gallons per acre for aerial application. Refer to the Table below for application rates and timing.

CROP	RATE/ACRE	TIMING
Banana[*] [*Not registered for use in California.]	16-24 fl oz	Apply 30 to 45 days after transplant. Repeat monthly.
Cereal Grains[*], such as: Barley[*], Buckwheat[*], Canola[*], Corn[*], Hops[*], Millet[*], Oats[*], Popcorn[*], Rice[*], Rye[*], Sesame[*], Sorghum[*], Wheat[*], Wild Rice[*] [*Not registered for use in California.]	8-12 fl oz	Apply at tillering (4 to 6 leaf stage). Repeat at second node appearance for Corn and Sorghum. For Barley, Oats, Rice and wheat repeat 30 to 40 days after first spray.
Citrus[*], such as: Calamondin[*], Citrus hybrids[*], Grapefruit[*], Kumquat[*], Lemon[*], Lime[*], Mandarin[*], Orange (sour and sweet)[*], Pummelo[*], Tangerine[*] [*Not registered for use in California.]	12-16 fl oz/ 100 gal water	Apply two weeks after bloom begins. Repeat during bloom and at petal drop.
Cotton[*] [*Not registered for use in California.]	8-12 fl oz	Apply when squares begin to appear. Repeat 2 to 3 weeks after first spray.
Cole Crops[*], such as: Broccoli[*], Broccoli Raab[*], Brussels Sprouts[*], Cabbage (Chinese)[*], Cauliflower[*], Cavalo Braccolo[*], Collards[*], Kale[*], Kohlrabi[*], Mizuna[*], Mustard Greens[*], Mustard Spinach[*], Rape Greens[*] [*Not registered for use in California.]	16-24 fl oz	Apply when there are 2 to 3 pairs of leaves. Repeat 30 to 45 days after first spray.
Cucurbit Vegetables[*], such as: Cantaloupe[*], Chayote[*], Chinese Waxgourd[*], Citron Melon[*], Cucumbers[*], Gherkin[*], Edible Gourds[*], Muskmelon hybrids and/or cultivars[*], Pumpkin[*], Summer Squash (such as Crookneck and Zucchini)[*], Watermelons[*], Winter Squash (such as Acorn and Butternut)[*] [*Not registered for use in California.]	16-24 fl oz	Apply when there are 2 to 3 leaves. Repeat during bloom.
Fruiting Vegetables[*], such as: Eggplant[*], Groundcherry[*], Pepino[*], Peppers (such as Bell, Chili, Pimento and Sweet Peppers)[*], Tomatillo[*], and Tomatoes[*] [*Not registered for use in California.]	16-24 fl oz	Apply during bloom. Repeat 2 to 3 times at 20-day intervals.

CROP	RATE/ACRE	TIMING
Grapes[*], such as: Dried, Table, Wine [*Not registered for use in California.]	24-28 fl oz	For seedless grapes, apply after blooming. Repeat 3 to 4 times at weekly intervals.
	24-32 fl oz	For Superior and Red Globe varieties, apply to bunches. Repeat 1 to 2 times at weekly interval.
Leafy Vegetables[*], such as: Amaranth[*], Arugula[*], Asparagus[*], Cardoon[*], Celery[*], Celtuce[*], Chervil[*], Chrysanthemum[*], Corn Salad[*], Cress (garden and upland)[*], Dandelion[*], Dock[*], Endive[*], Fennel[*], Lettuce (head and leaf)[*], Orach[*], Parsley[*], Purslane (garden and winter)[*], Radicchio[*], Rhubarb[*], Spinach[*], Swiss Chard[*] [*Not registered for use in California.]	12-20 fl oz	Apply when there are two to three pair of leaves and repeat 10 to 15 days later.
Pineapples[*] [*Not registered for use in California.]	24-30 fl oz/ 250 gal water	Apply 18 days after flora induction. Repeat 24 days later.
Pome Fruit[*], such as: Apple[*], Crabapple[*], Loquat[*], Mayhaw[*], Pear (including Oriental)[*], Quince[*] [*Not registered for use in California.]	12-16 fl oz/ 100 gal water	Apply between bloom and petal fall. Repeat when fruit appears.
Potatoes[*], Root and Tuber Vegetables[*], such as: Arracacha[*], Arrowroot[*], Artichoke[*], Canna (edible)[*], Cassava[*], Chayote (root)[*], Garlic[*], Ginger[*], Onion[*], Potato[*], Sweet Potato[*], Tanier[*], Turmeric[*], Yam Bean[*], Yam[*] [*Not registered for use in California.]	16-24 fl oz	Apply during bloom. Repeat 21 days (3 weeks) later.
Root Vegetables[*], such as: Beet (garden & sugar)[*], Burdock (edible)[*], Carrot[*], Celeriac[*], Chervil[*], Chicory[*], Ginseng[*], Horseradish[*], Parsnip[*], Radish[*], Rutabaga[*], Salsify[*], Skirret[*], Turnip[*] [*Not registered for use in California.]	16-24 fl oz	Apply during bloom. Repeat 15 to 20 days later.
Strawberries[*] [*Not registered for use in California.]	16-24 fl oz/ 100 gal water	Apply when blooming begins. Repeat at 50% bloom, then repeat weekly for up to 4 weeks.
Stone Fruit[*], such as: Apricot[*], Cherry (sweet and tart)[*], Nectarine[*], Peach[*], Plum[*], Plumcot[*], Prune (fresh)[*] [*Not registered for use in California.]	12-16 fl oz/ 100 gal water	Apply between bloom and petal fall. Repeat when fruit appears.
Succulent, Dried Beans[*] and Peas[*], such as: Beans (<i>Phaseolus</i> and <i>Vigna</i> spp.)*, Jackbean[*], Pea (<i>Pisum</i> spp.)*, Pigeon Pea[*], Soybean[*], Sword Bean[*], and dried cultivars of Bean (<i>Lupinus</i> , <i>Phaseolus</i> , <i>Vigna</i> spp.)*, Broad Bean[*], Chickpea[*], Guar[*], Lablab Bean[*], Lentil[*], and Pea[*]. [*Not registered for use in California.]	8-12 fl oz	Apply during bloom. Repeat 15 to 20 days later.

CROP	RATE/ACRE	TIMING
Tree Nuts[*] and Pistachio[*], such as: Almond[*], Beech Nut[*], Brazil Nut[*], Butternut[*], Cashew[*], Chestnut[*], Chinquapin[*], Filbert[*], Hickory Nut[*], Macadamia Nut[*], Pecan[*], Walnut (Black and English)[*], and Pistachio[*] [*Not registered for use in California.]	12-16 fl oz/ 100 gal water	Apply between bloom and petal fall. Repeat when fruit appears.
Tropical Tree Fruits[*], such as: Avocado[*], Cherimoya[*], Coffee[*], Guava[*], Lychee[*], Mango[*], Papaya[*] [*Not registered for use in California.]	12-16 fl oz/ 100 gal water	Apply 2 weeks after bloom begins. Repeat during bloom and at petal drop.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry place. Do not store at temperatures above 75°F for prolonged periods. Keep container tightly closed when not in use.

PESTICIDE DISPOSAL: Do not contaminate food or feed by disposal. Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

CONTAINER HANDLING:

Nonrefillable containers equal to or less than 5 gallons:

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the 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, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Nonrefillable containers greater than 5 gallons:

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

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